

Forward Model Fitting of Silicon X-ray Diffraction Microscopy Data: Real Space Map and Detector Images

$f = 0.25$ peak threshold

$F_{min} \geq 0.75$ Bragg overlap convergence criterion

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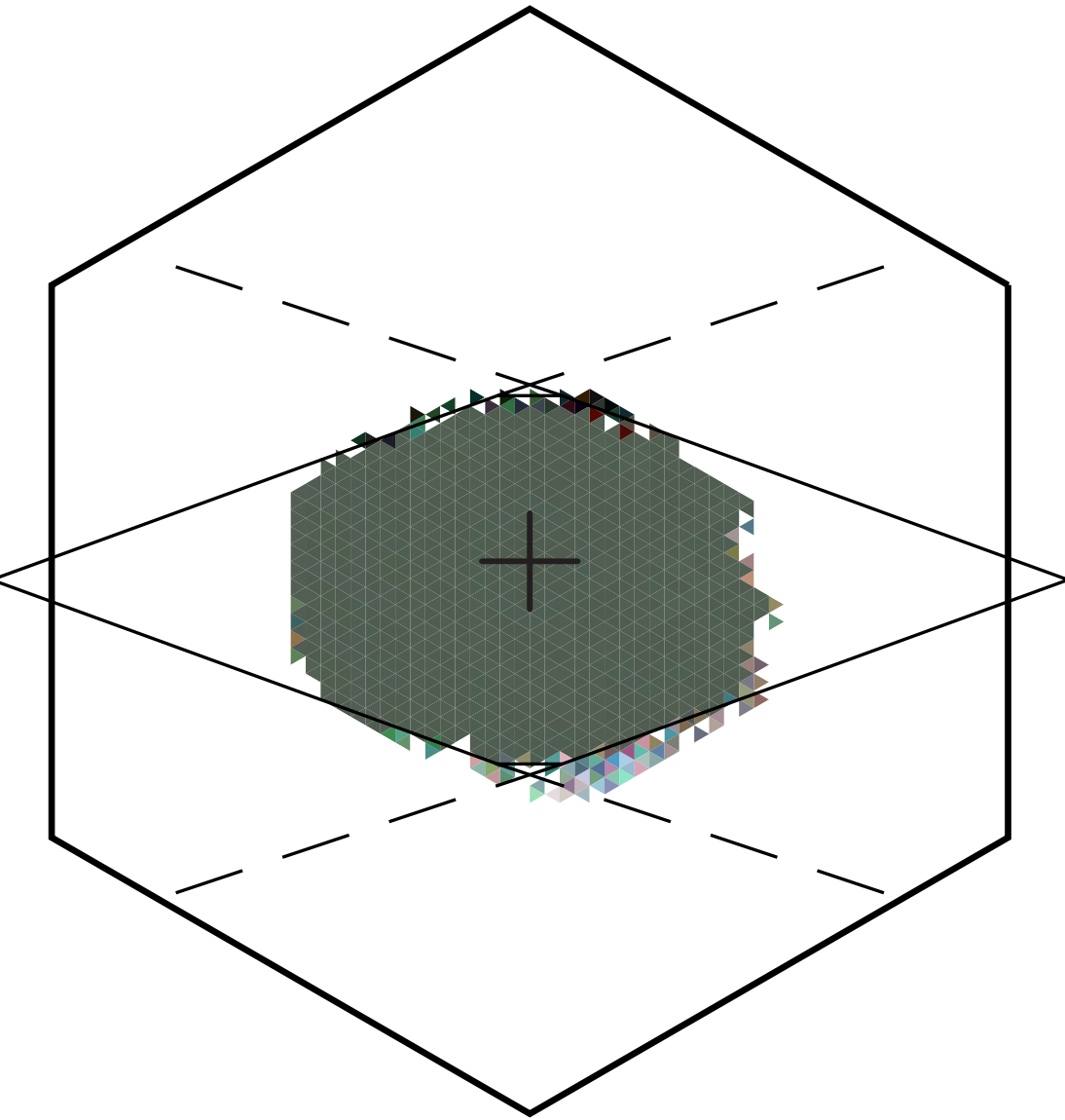
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Sample Space Map



Hexagon: 150 micron side length showing simulated area

Dashed lines: Illuminated sample region over $\pm 20^\circ$ rotation

Solid diamond: Always illuminated region

Colors: Area elements with converged orientations

White space: Area elements with no converged orientation

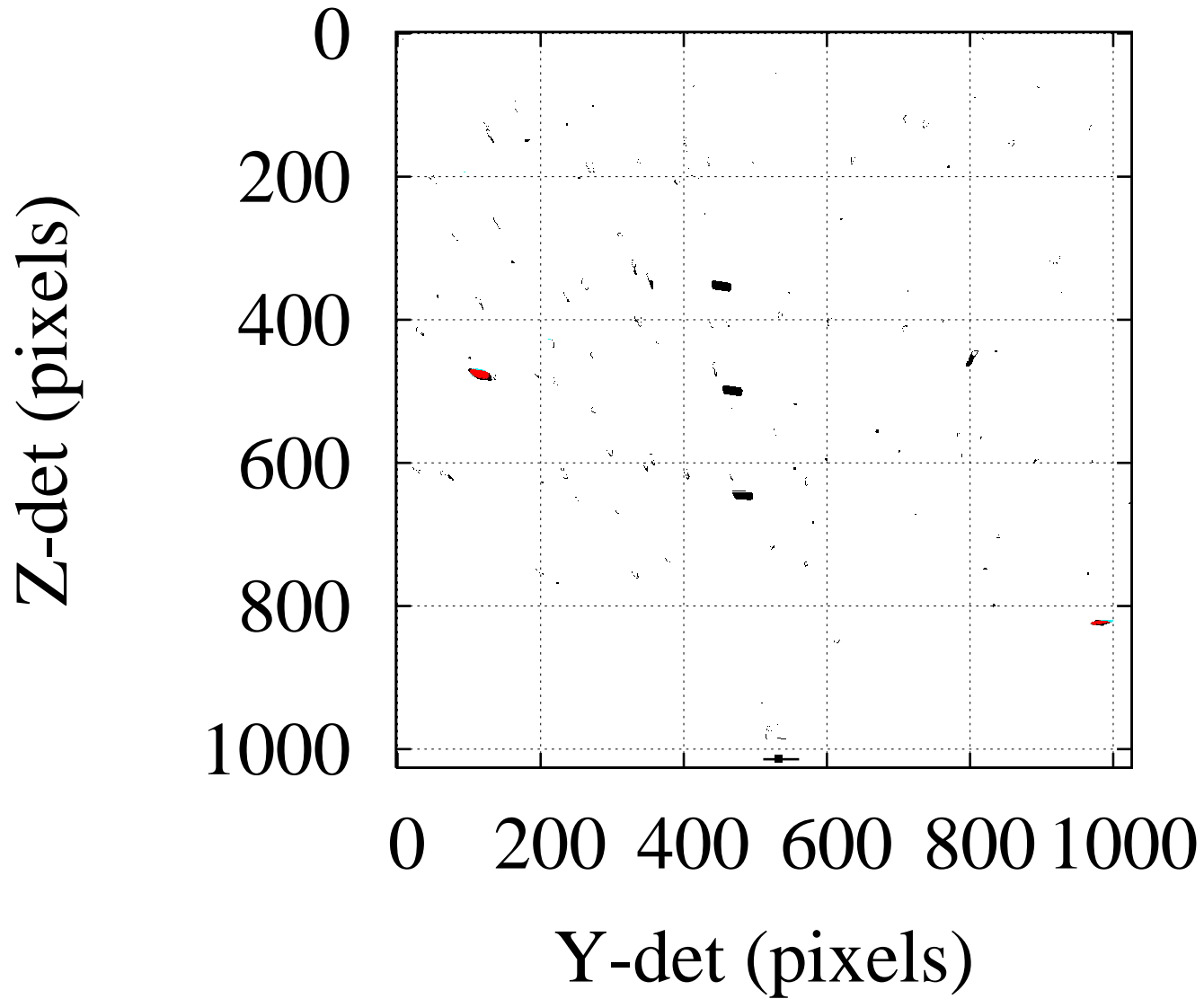
+ : rotation axis

The following pages show 120 CCD detector images collapsed onto 40 plots. Each plot superposes the three images, collected at different sample-to-detector distances, which were taken as the sample was rotated through the same interval, $\delta\omega$. The center of this interval is specified in each plot title.

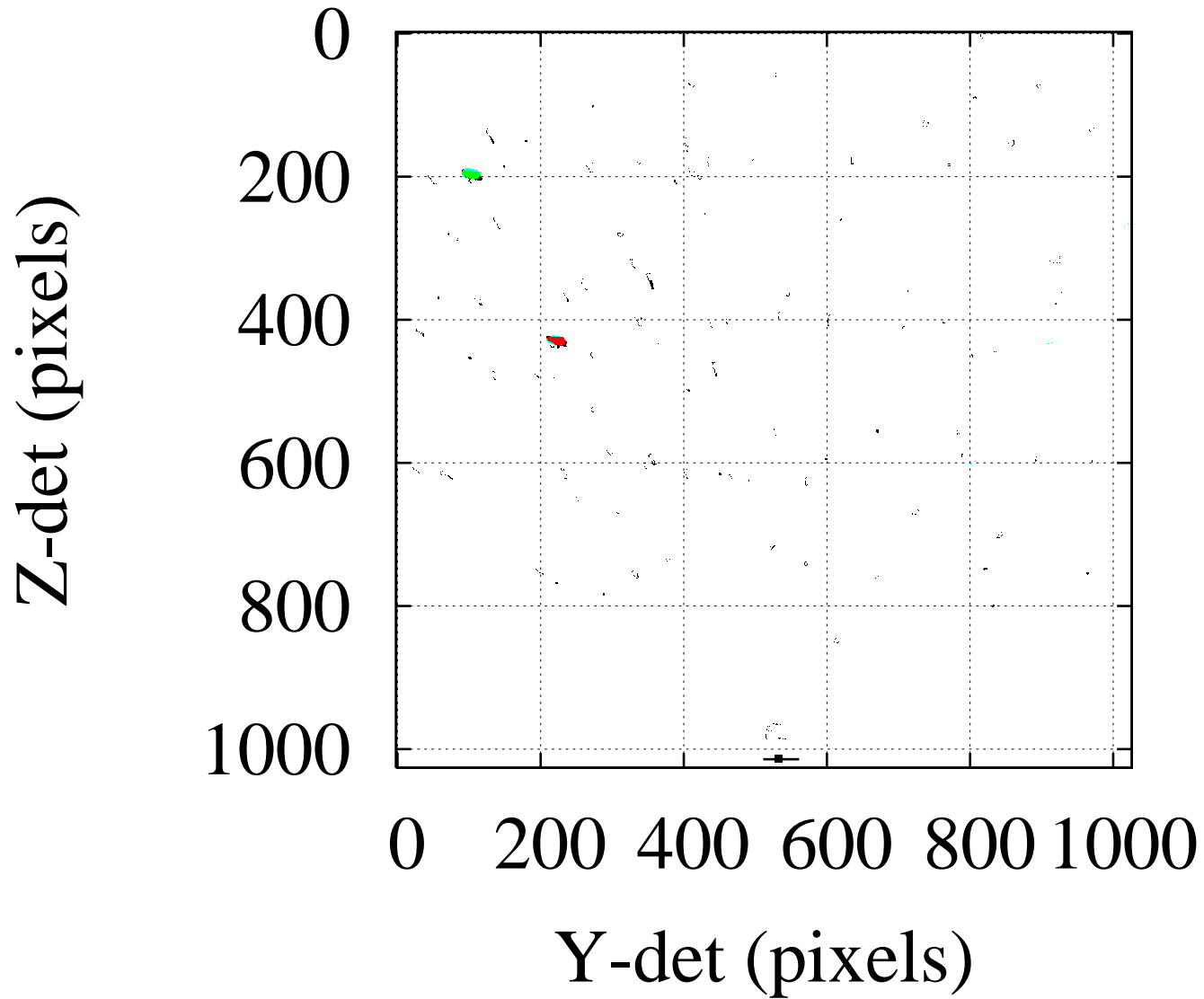
Bare experimental intensity is shown in black. Pixels struck by the simulation of the sample are shown in color: aqua for pixels not overlapping experimental intensity; red, green, and blue for overlap at L_1, L_2, L_3 .

The projected incident beam position and detector origin are indicated near pixel (532,1013).

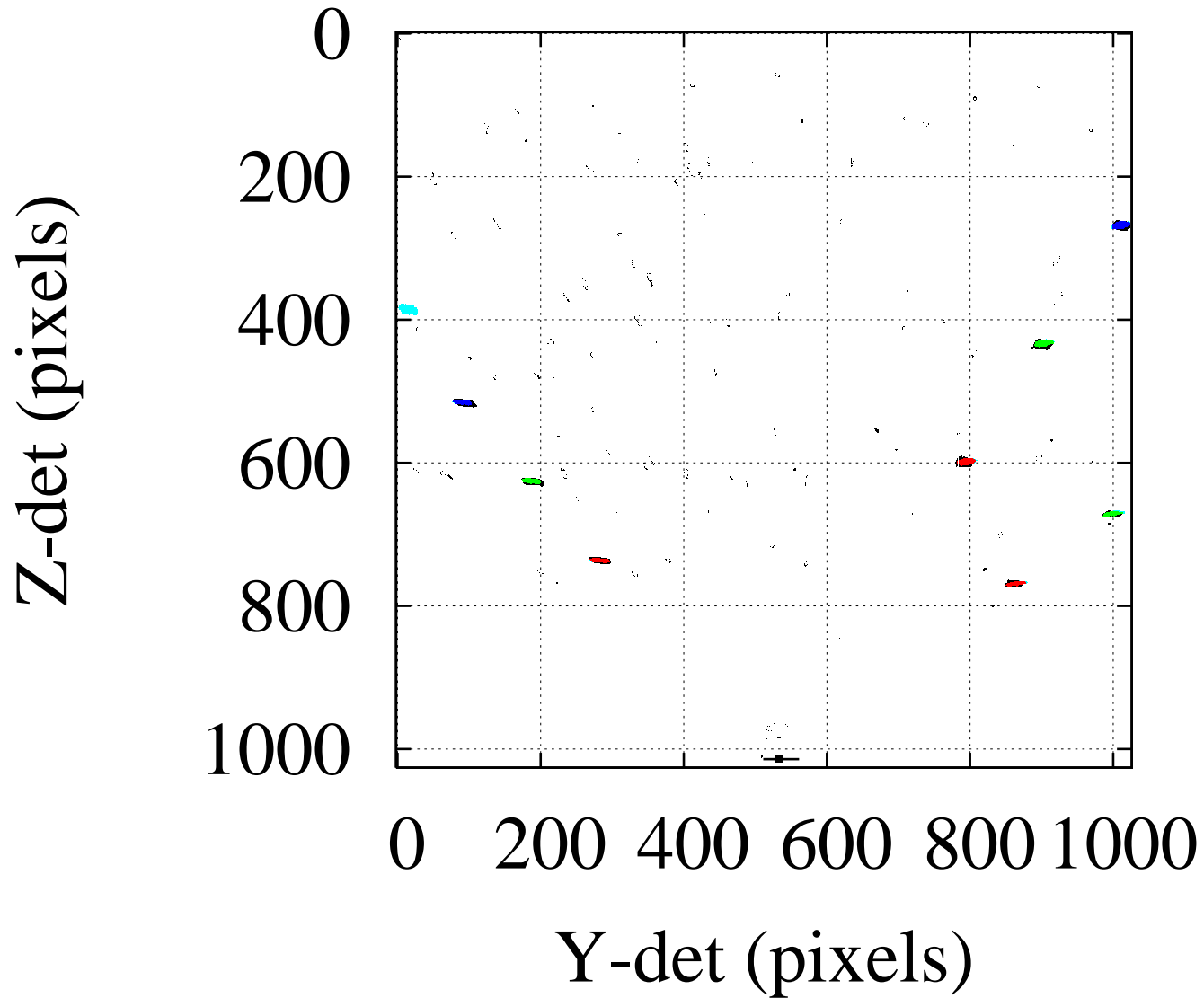
$\Omega(1) = -19.50 \pm 0.50$



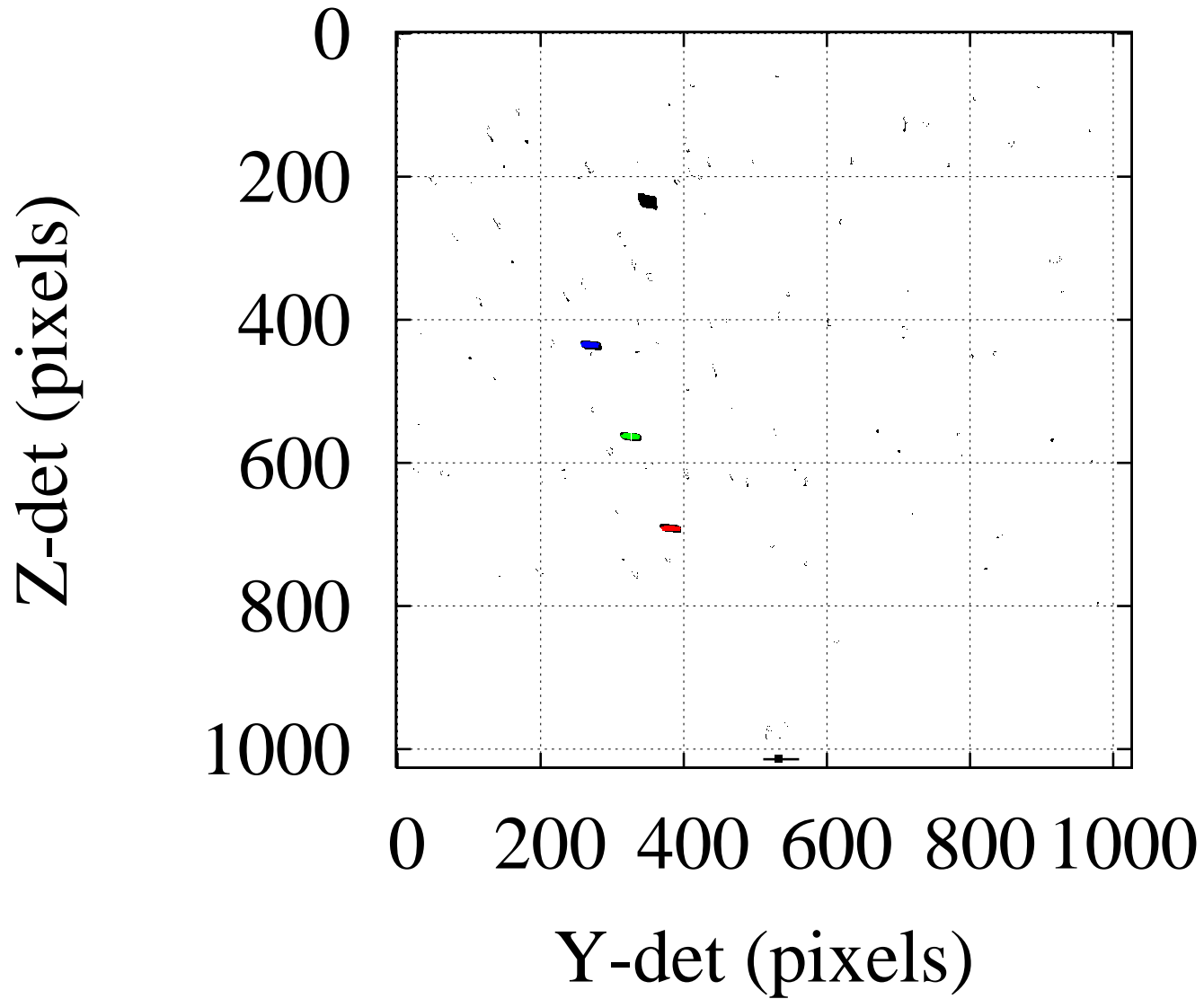
$\Omega(2) = -18.50 \pm 0.50$



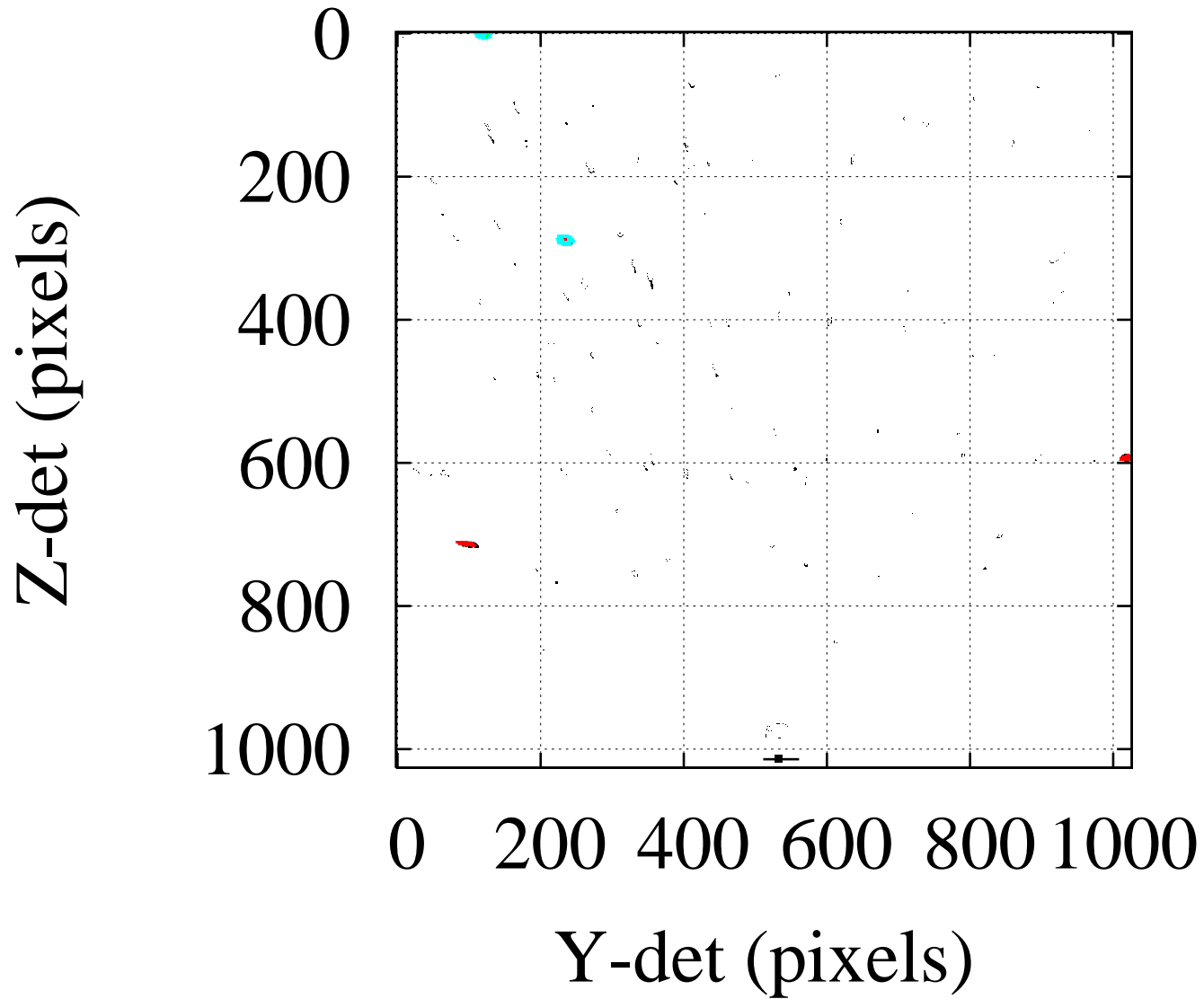
$\Omega(3) = -17.50 \pm 0.50$



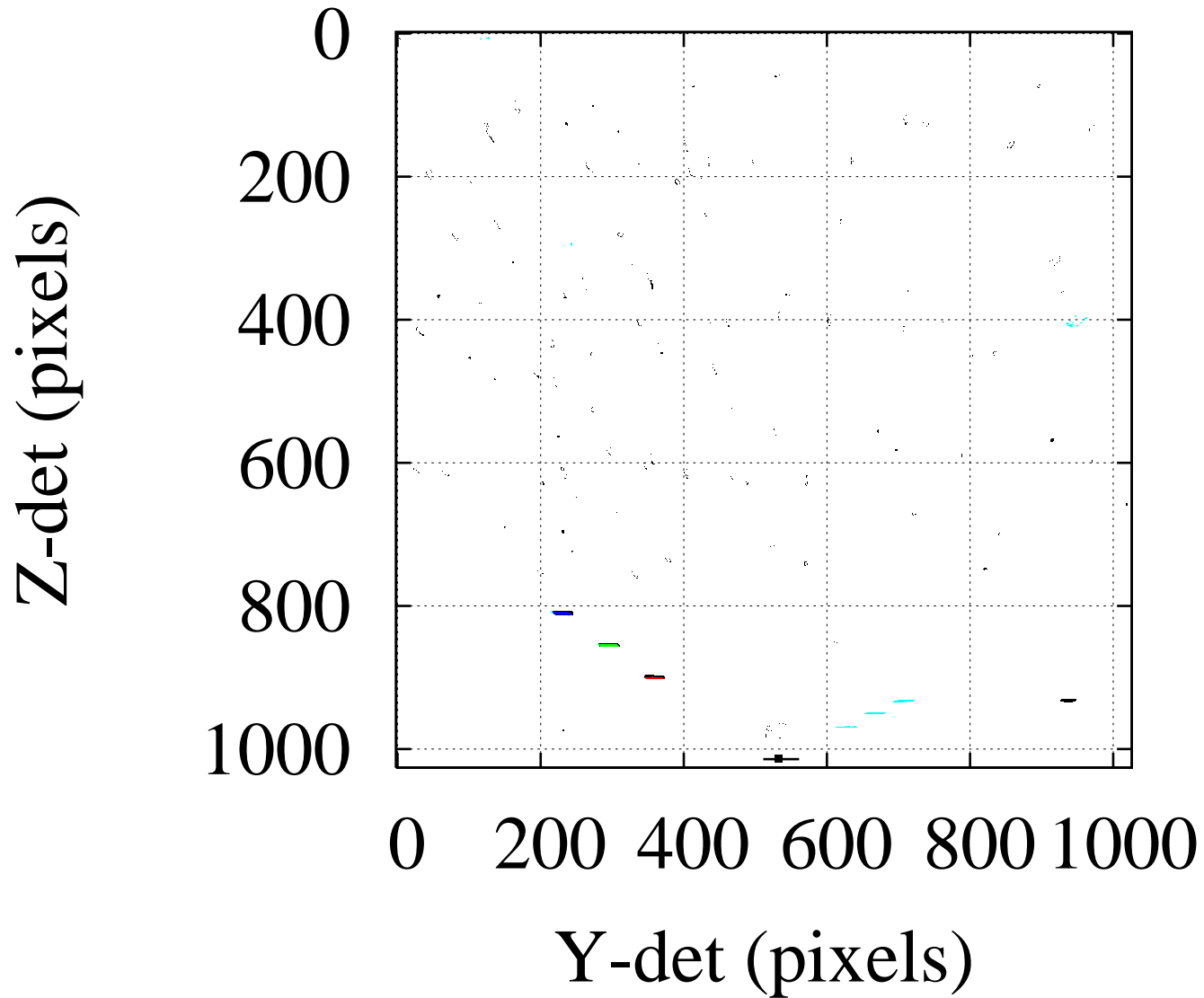
$\Omega(4) = -16.50 \pm 0.50$



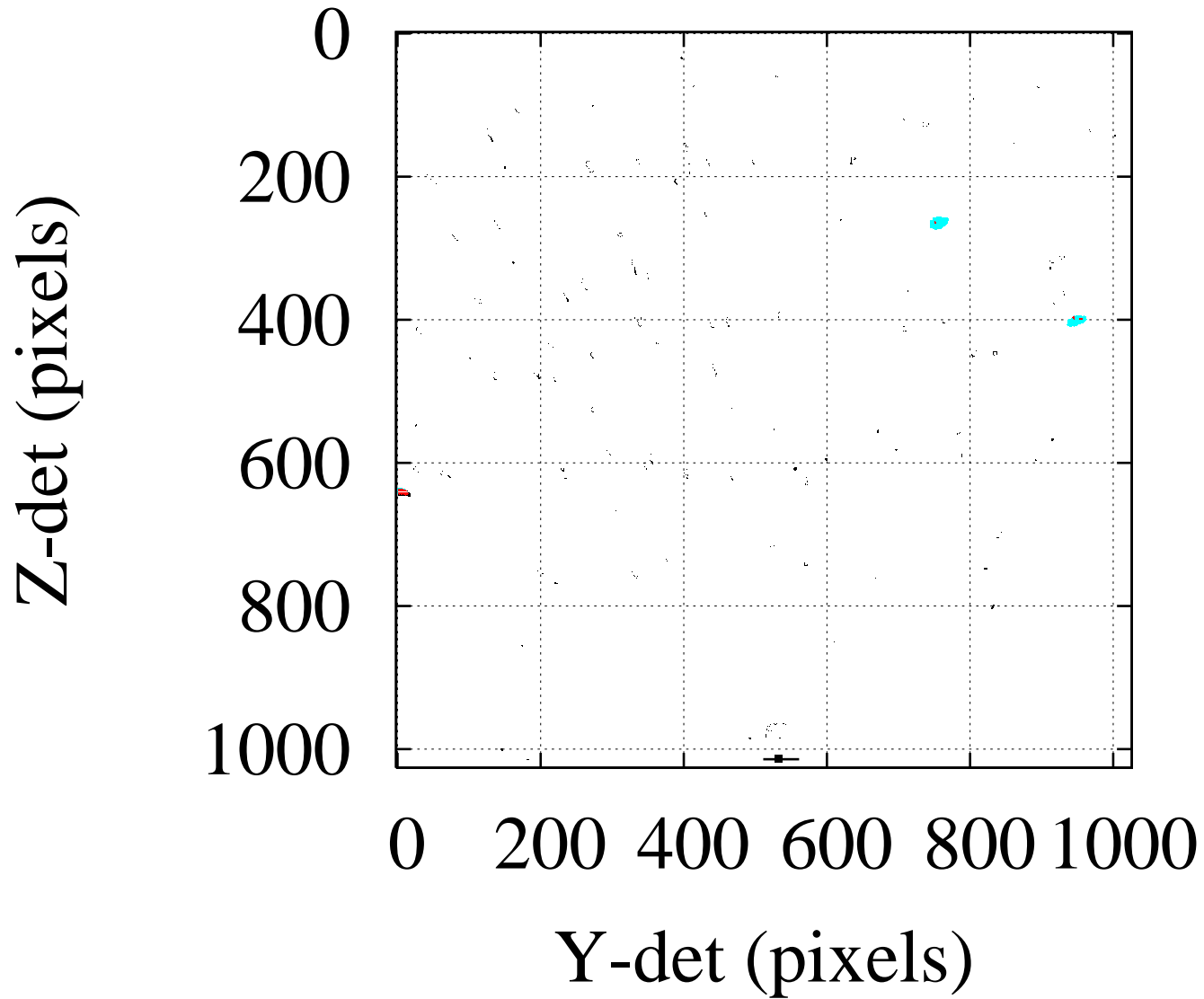
$\Omega(5) = -15.50 \pm 0.50$



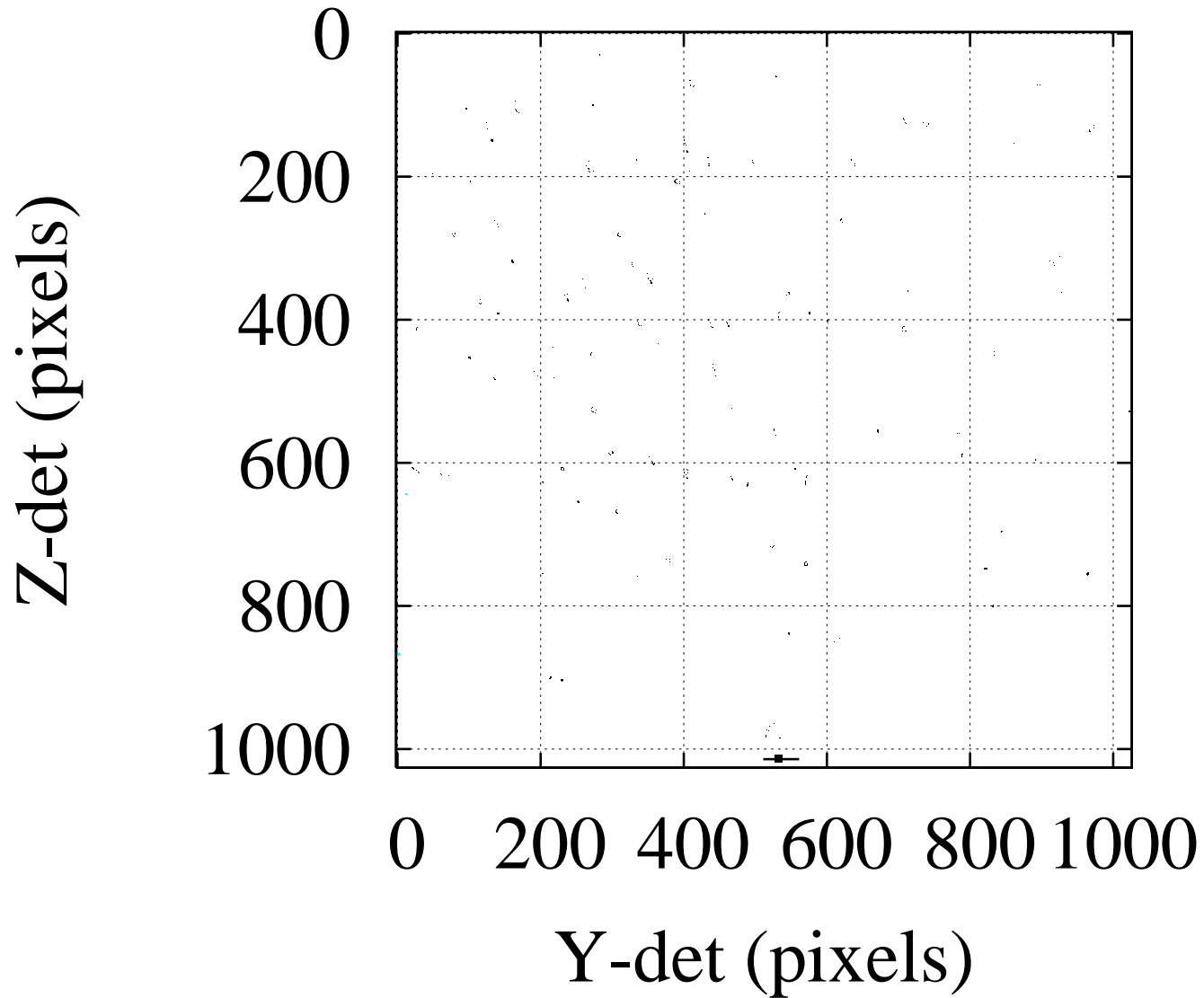
$$\Omega(\beta) = -14.50 \pm 0.50$$



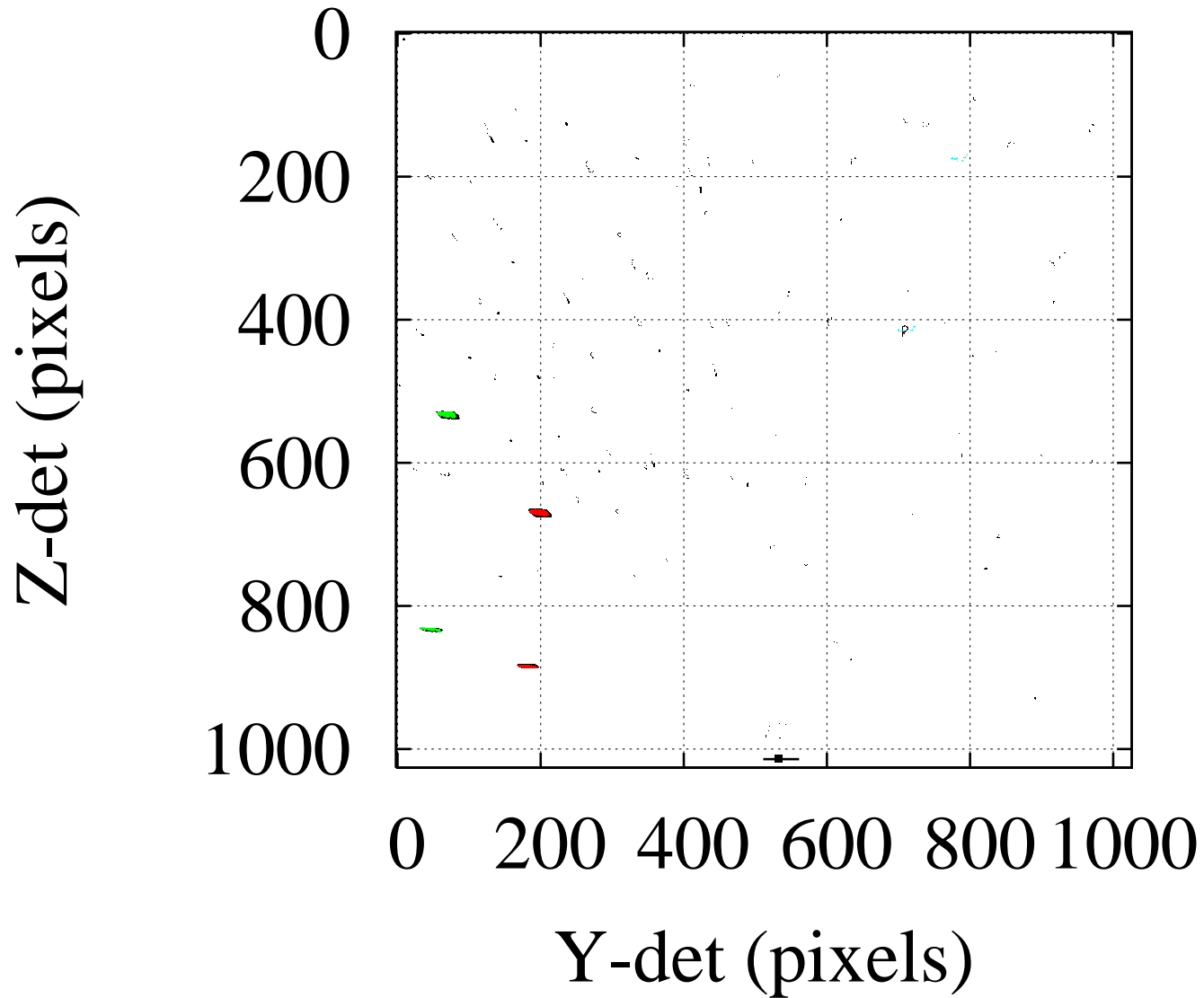
$\Omega(7) = -13.50 \pm 0.50$



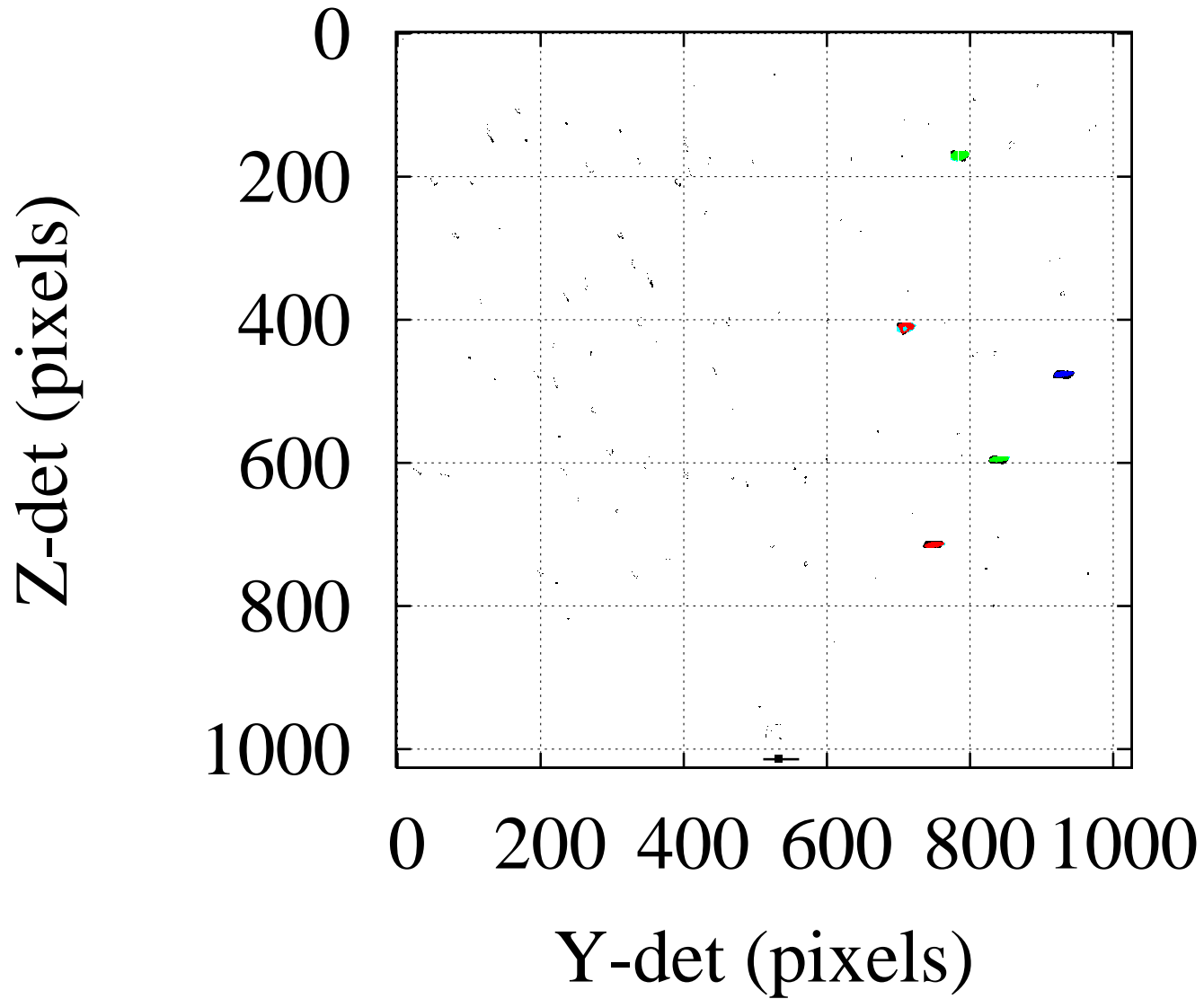
$$\Omega(8) = -12.50 \pm 0.50$$



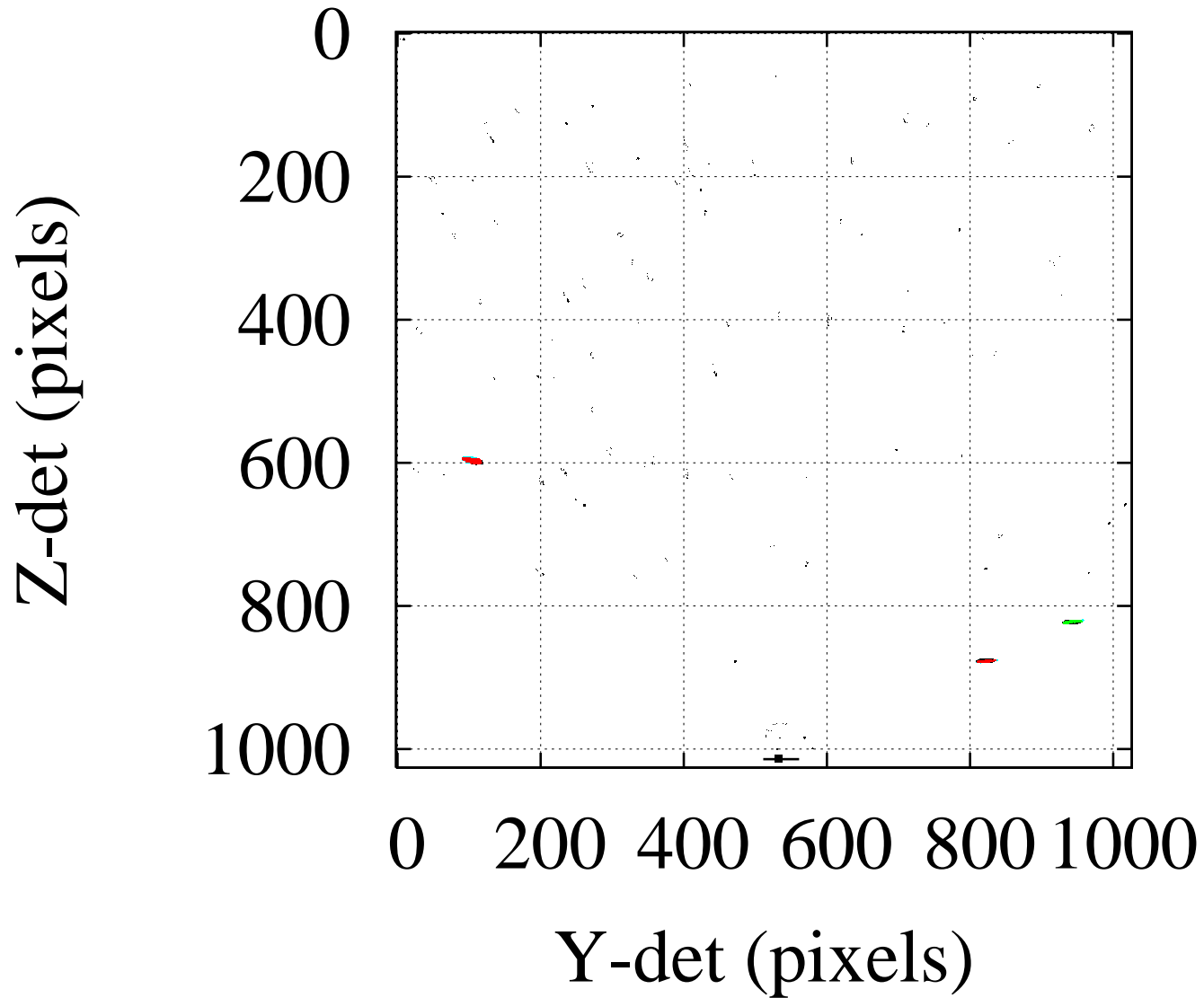
$\Omega(9) = -11.50 \pm 0.50$



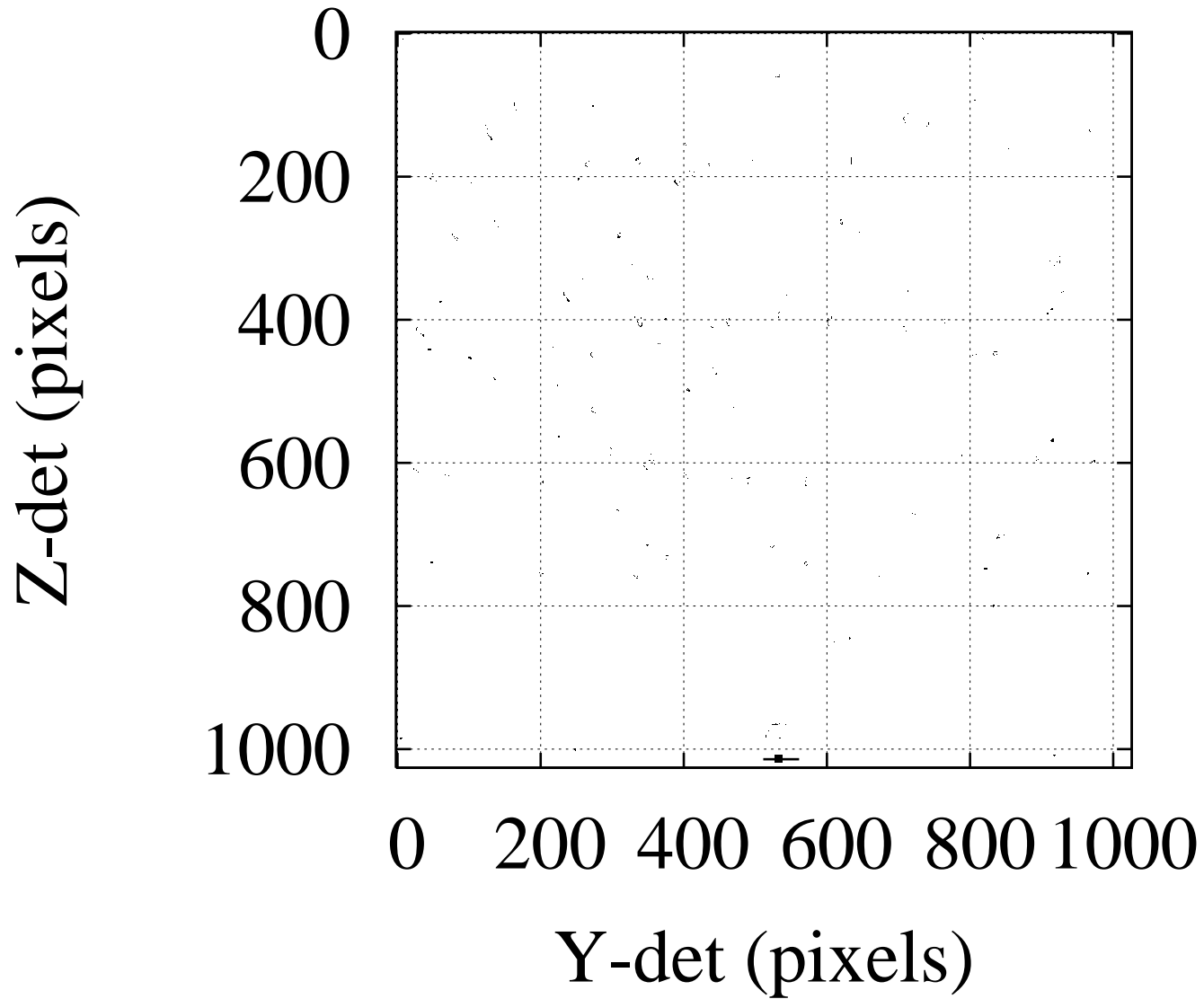
$\Omega(10) = -10.50 \pm 0.50$



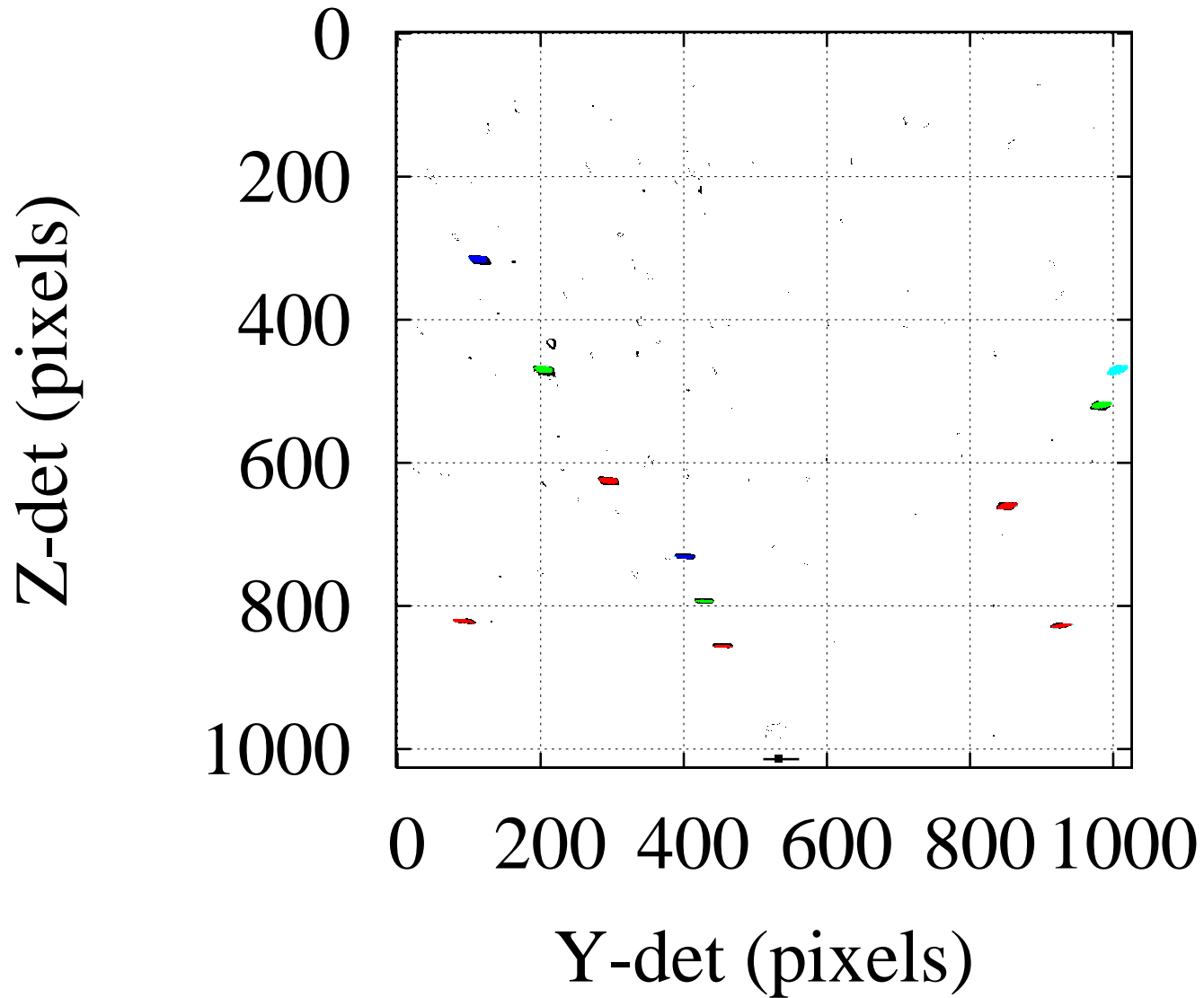
$\Omega(11) = -9.50 \pm 0.50$



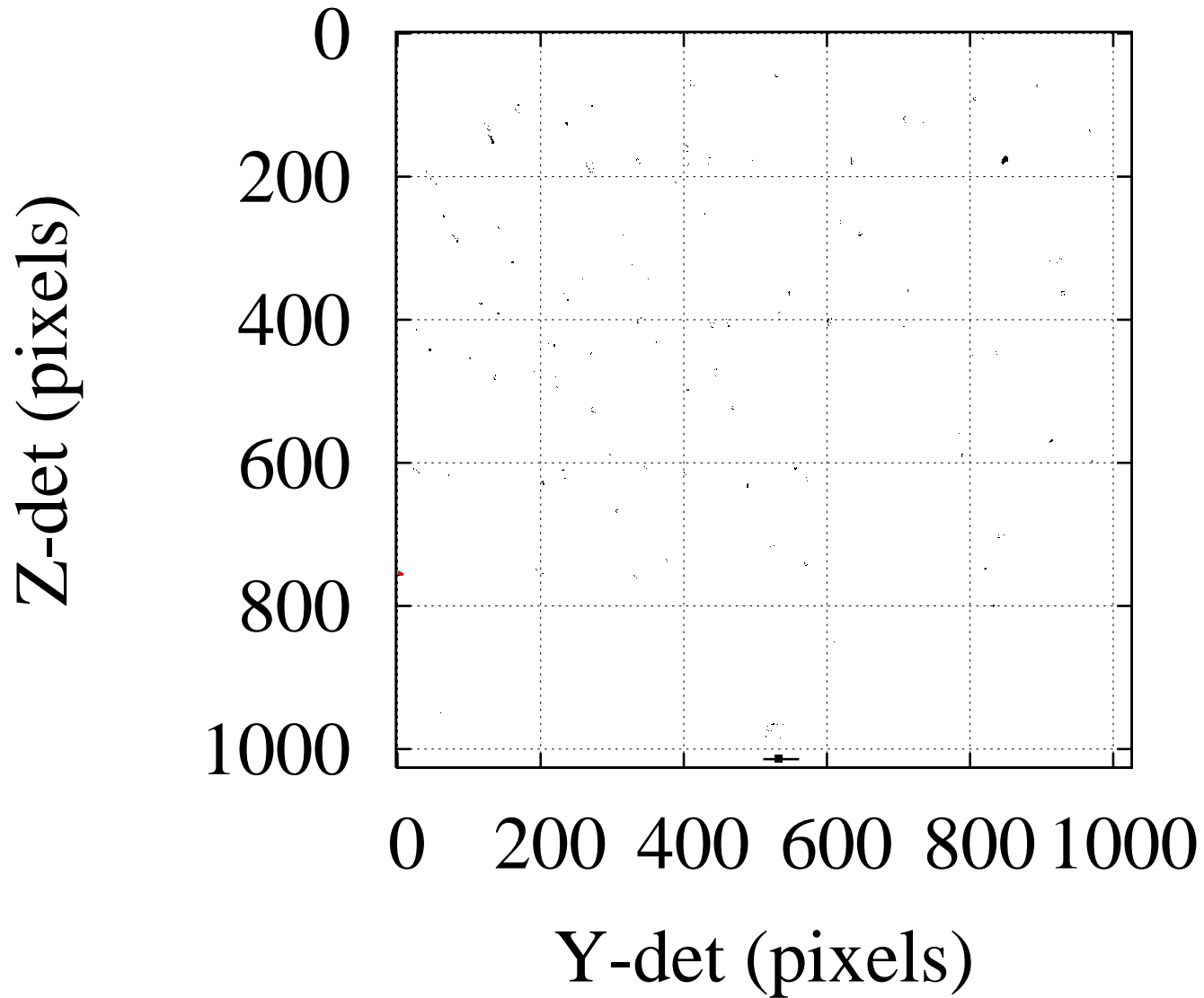
$$\Omega(12) = -8.50 \pm 0.50$$



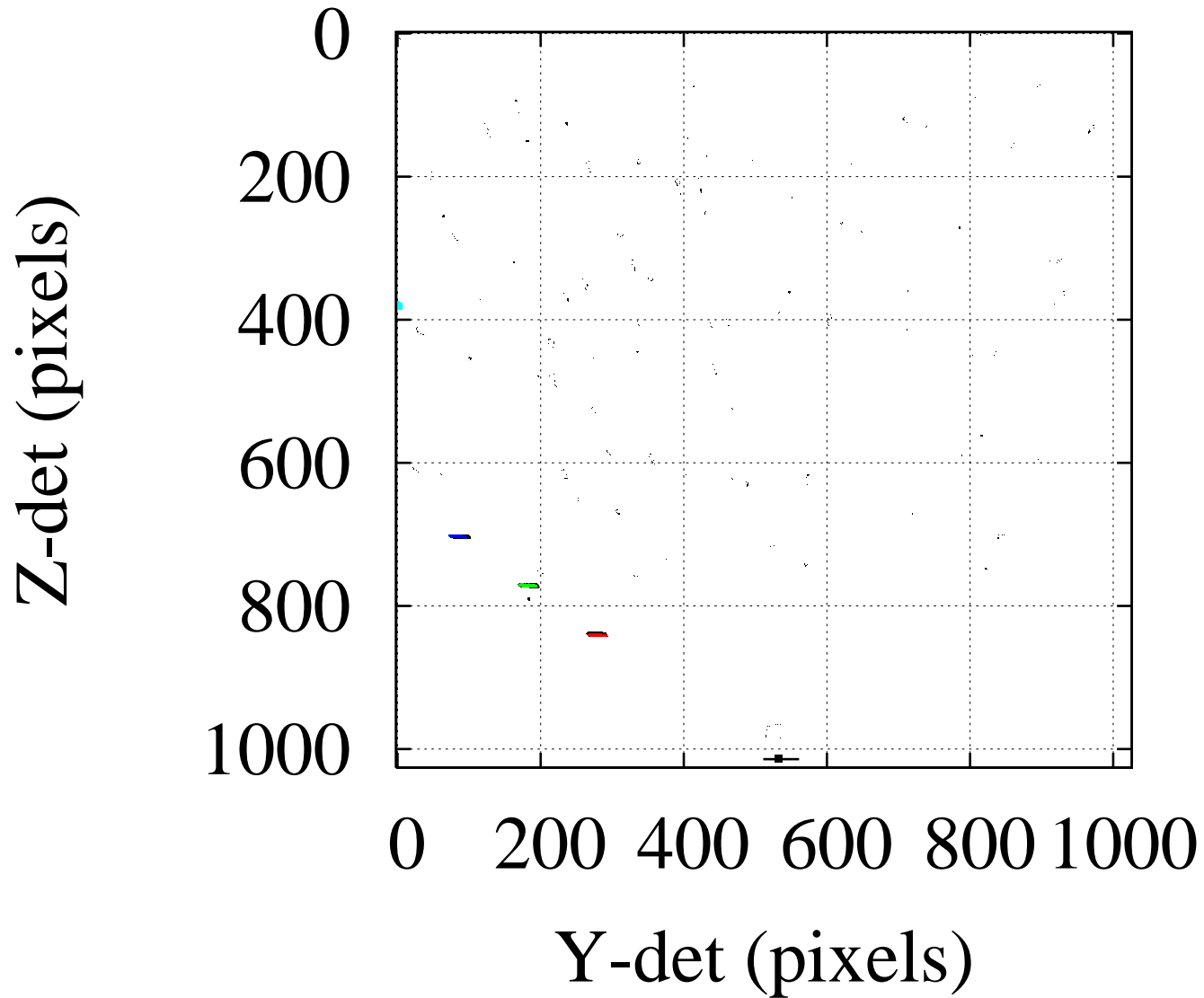
$\Omega(13) = -7.50 \pm 0.50$



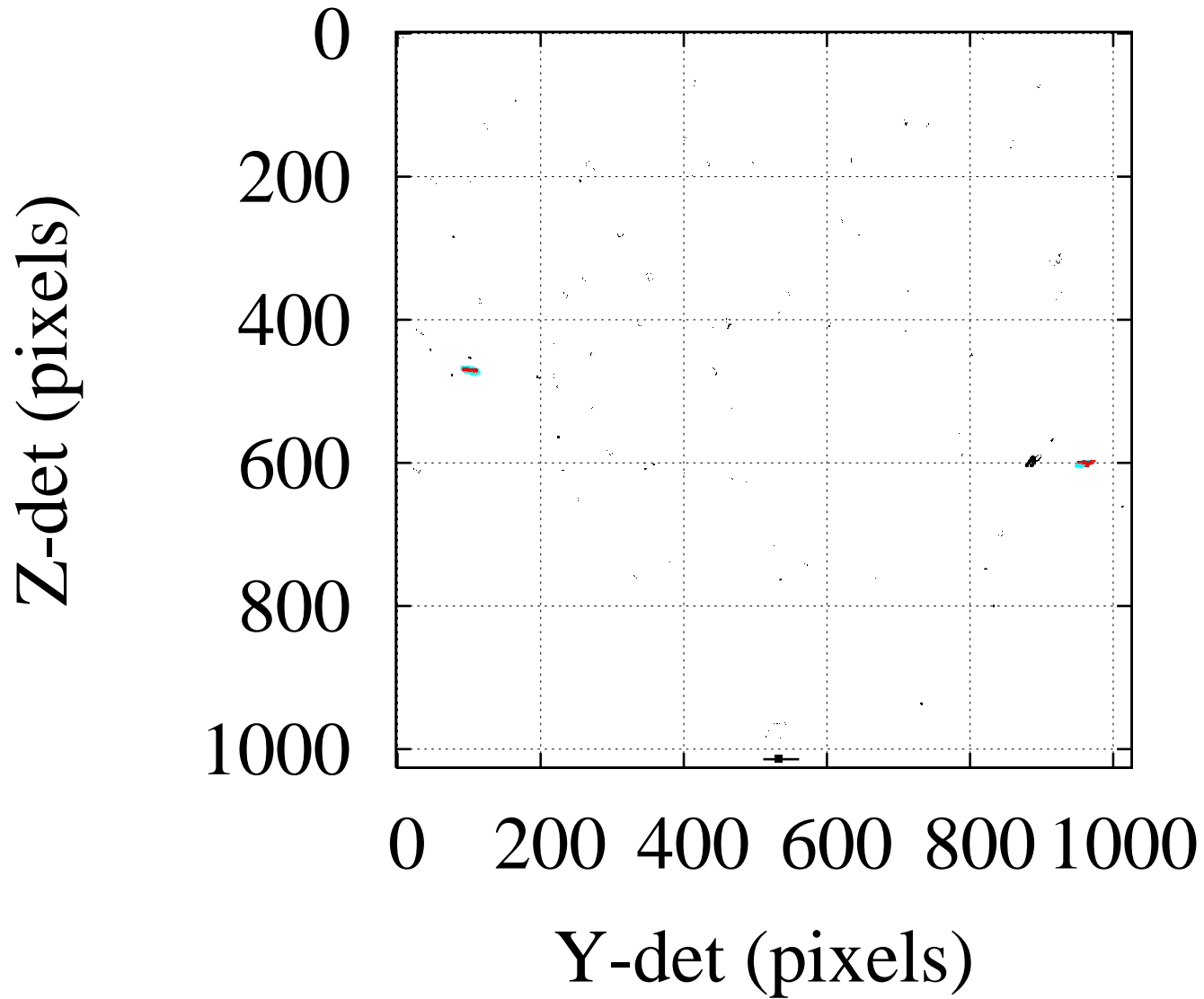
$$\Omega(14) = -6.50 \pm 0.50$$



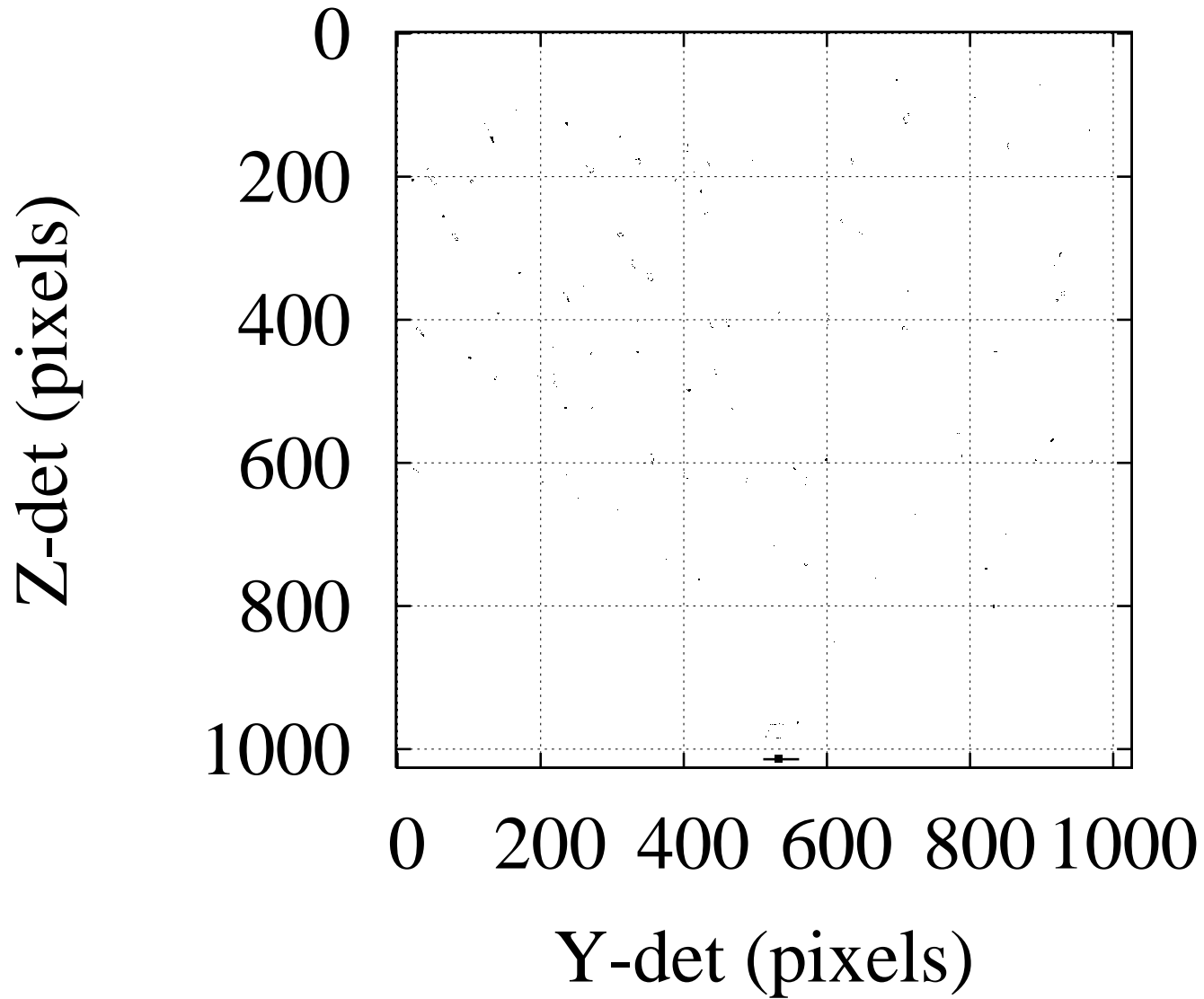
$$\Omega(15) = -5.50 \pm 0.50$$



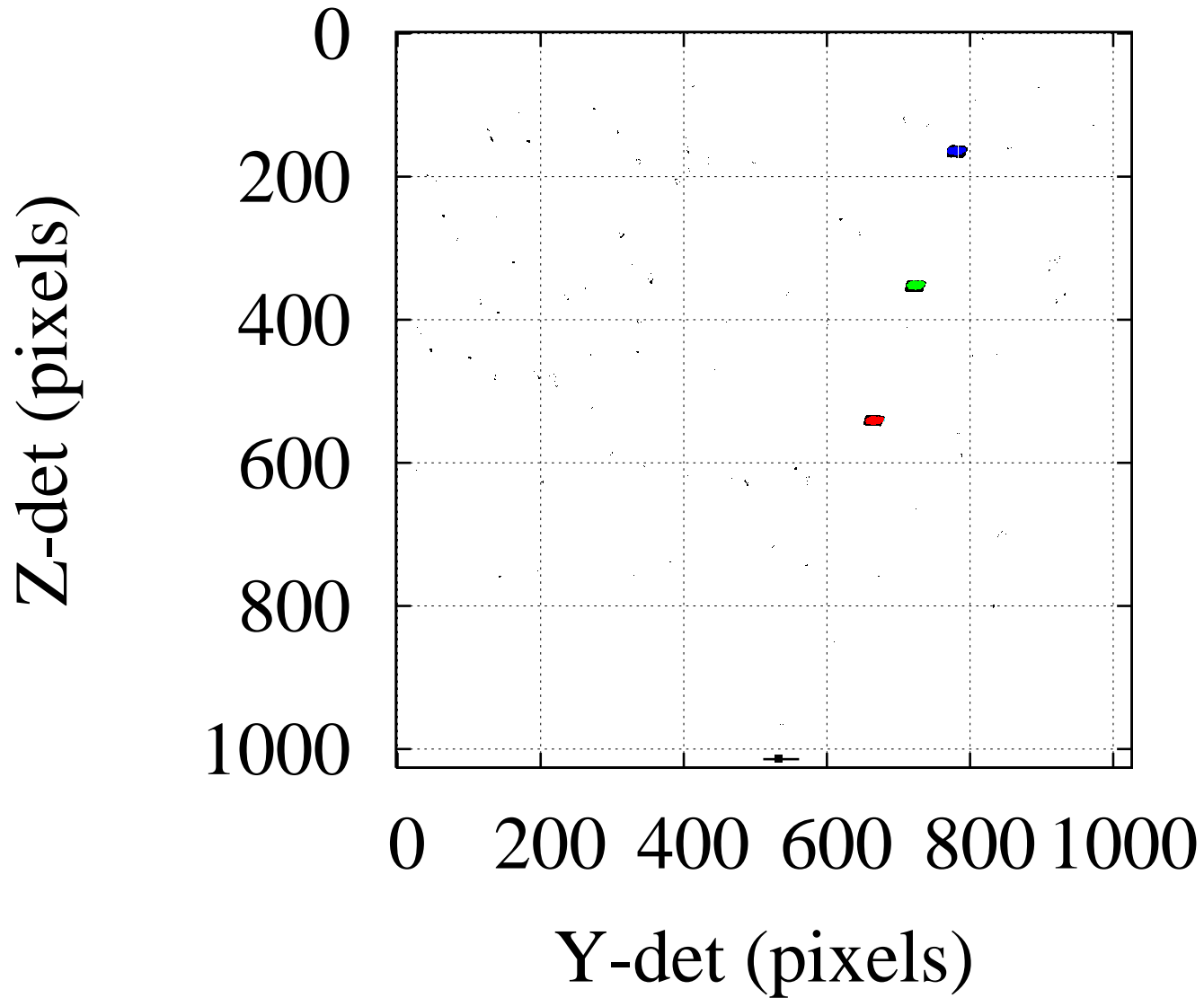
$\Omega(16) = -4.50 \pm 0.50$



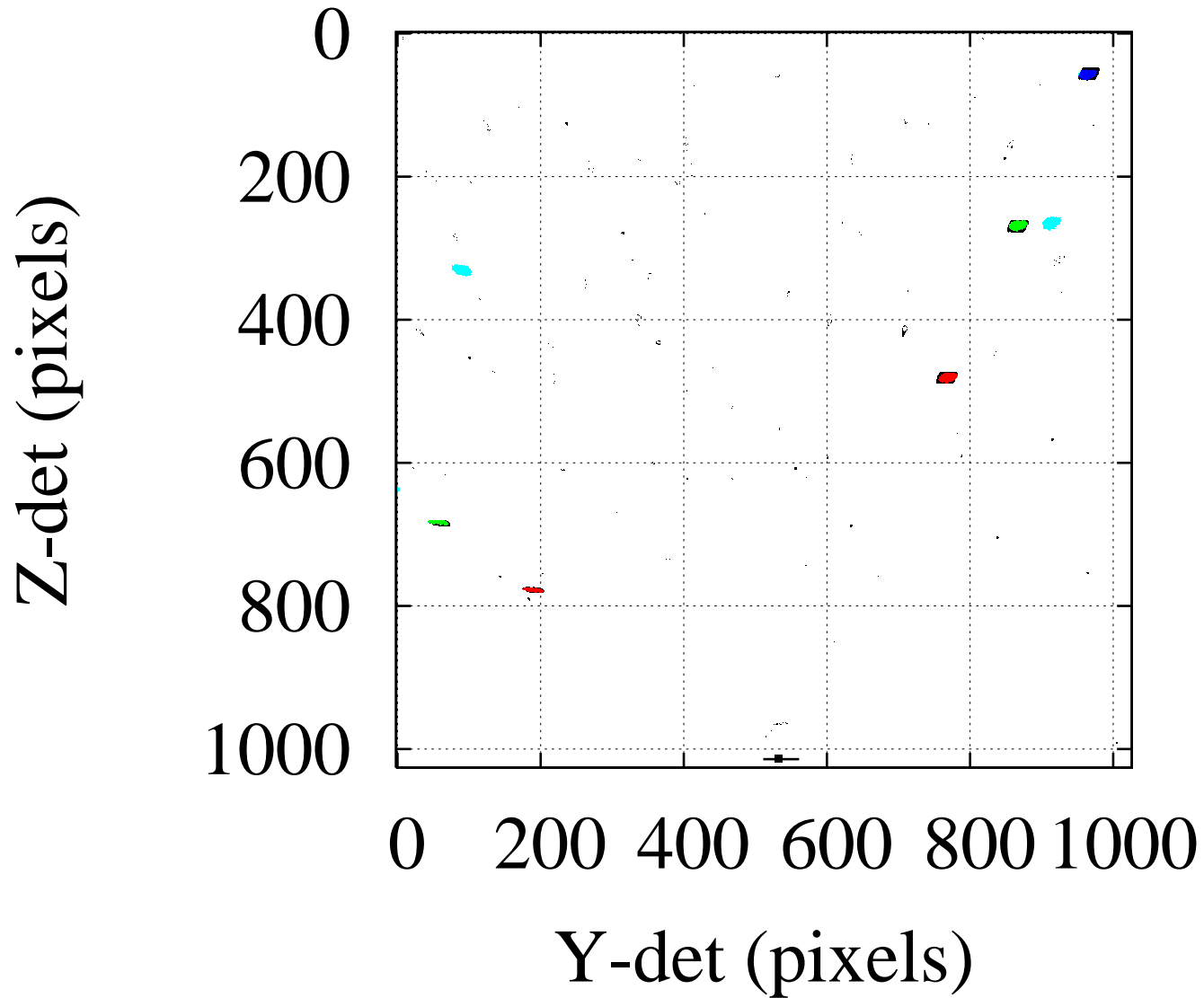
$\Omega(17) = -3.50 \pm 0.50$



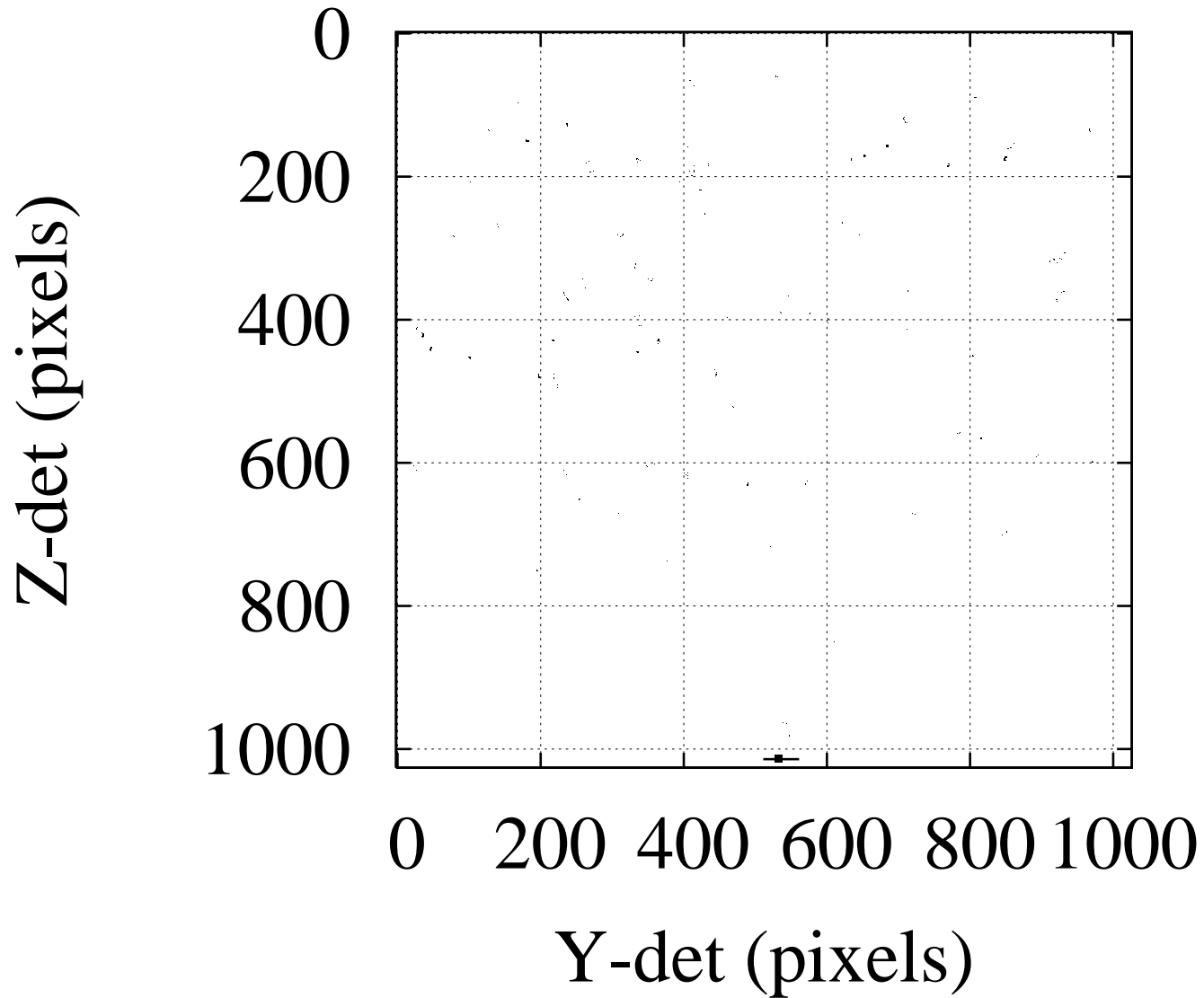
$\Omega(18) = -2.50 \pm 0.50$



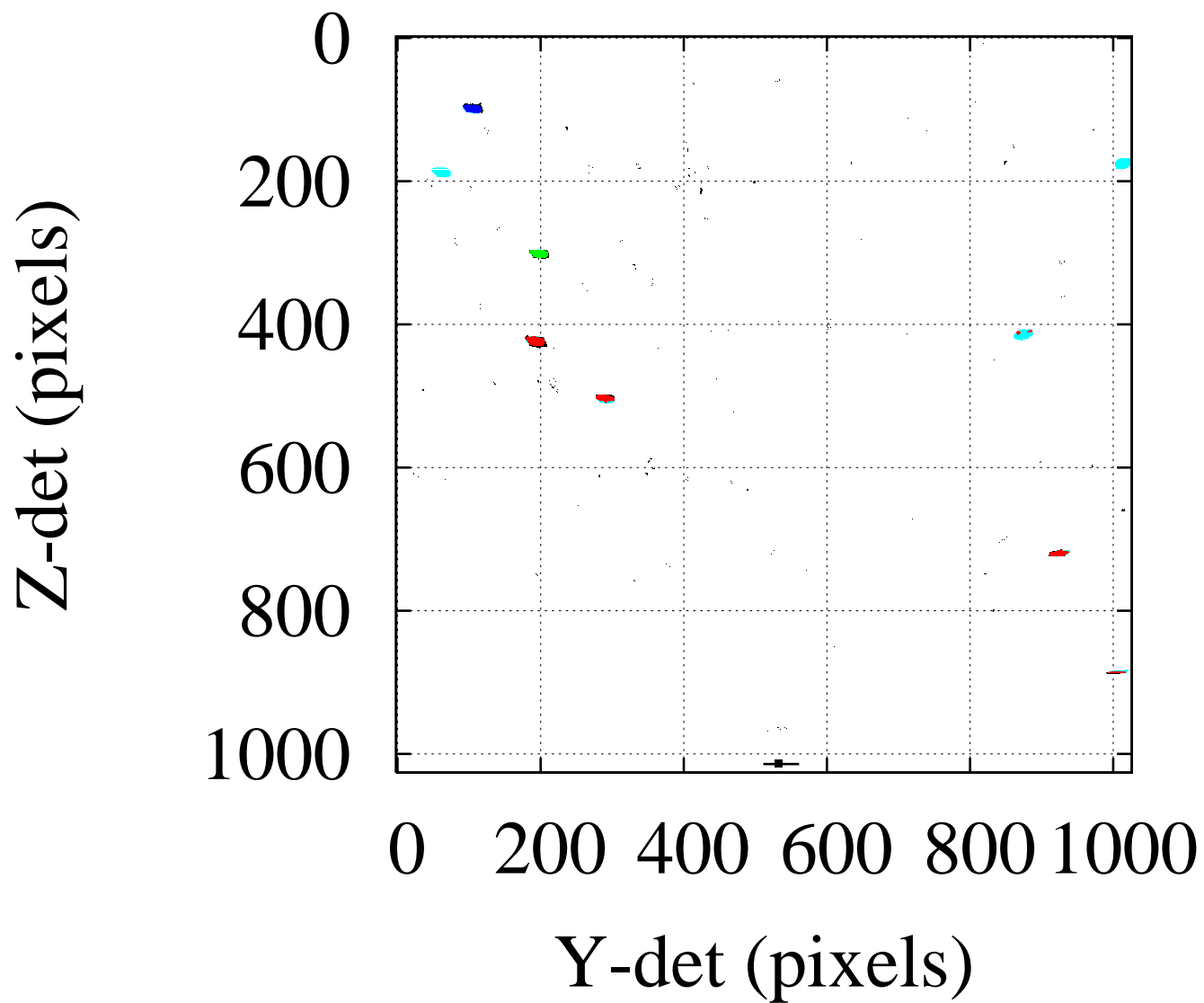
$\Omega(19) = -1.50 \pm 0.50$



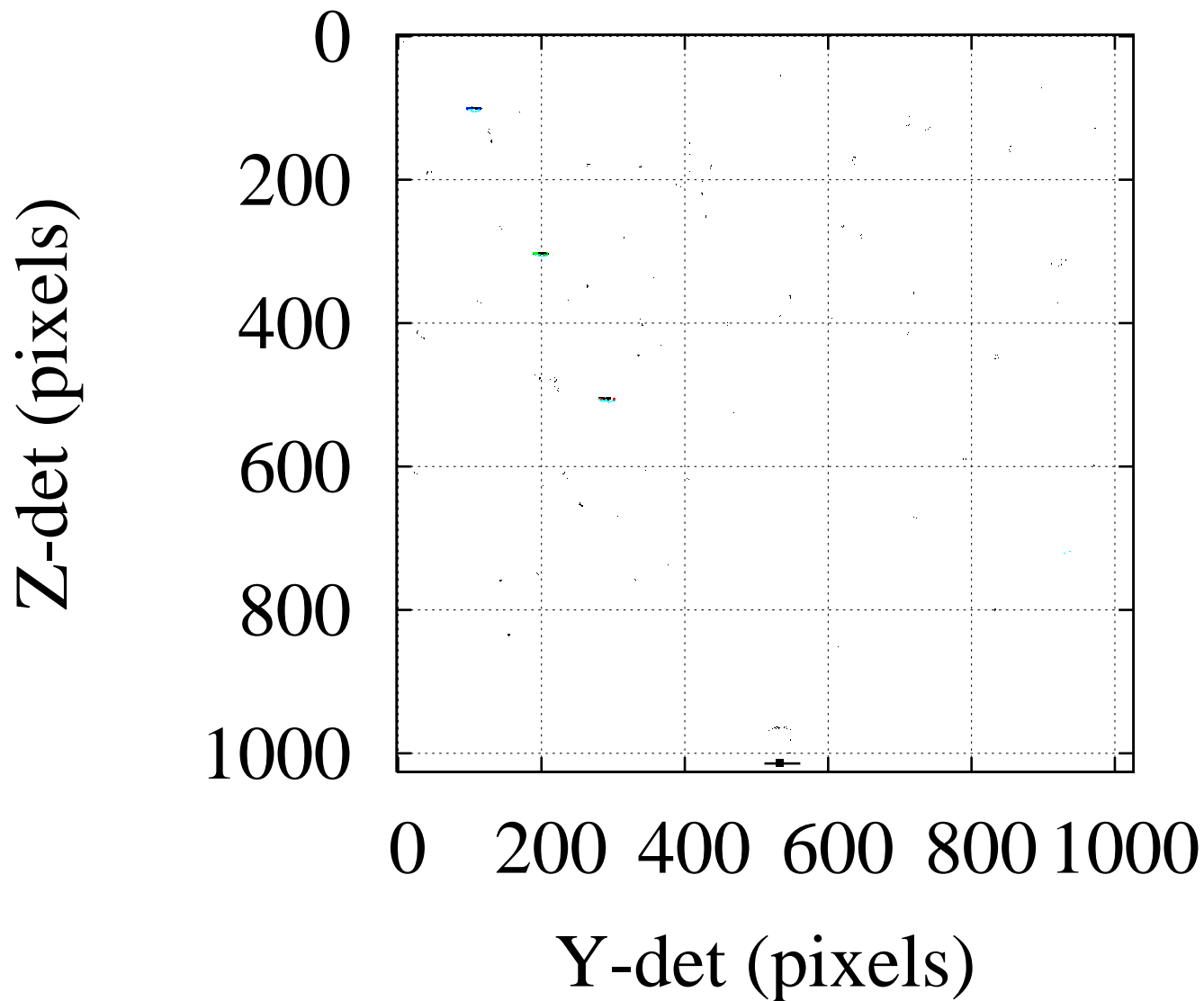
$$\Omega(20) = -0.50 \pm 0.50$$



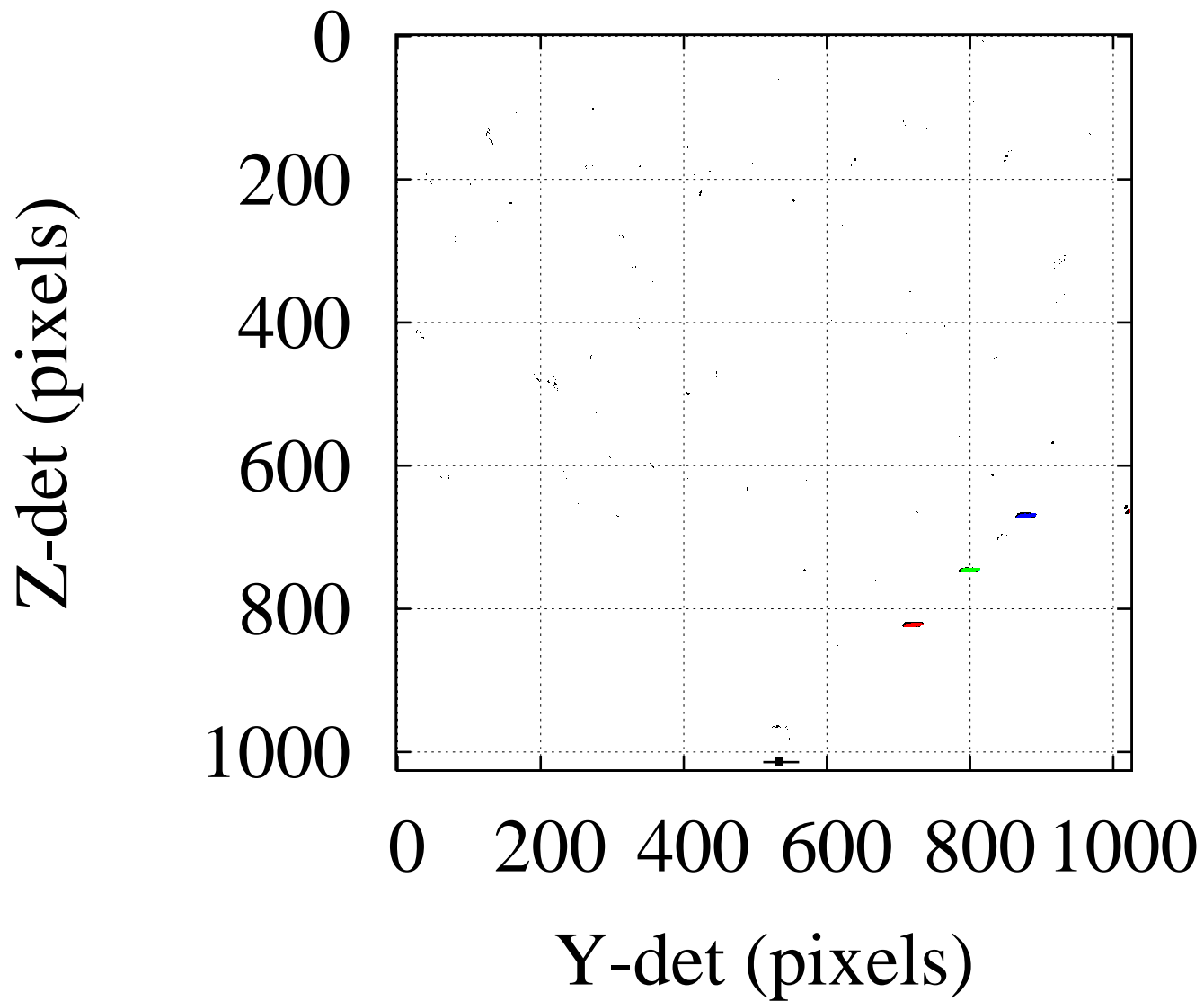
$$\Omega(21) = 0.50 \pm 0.50$$



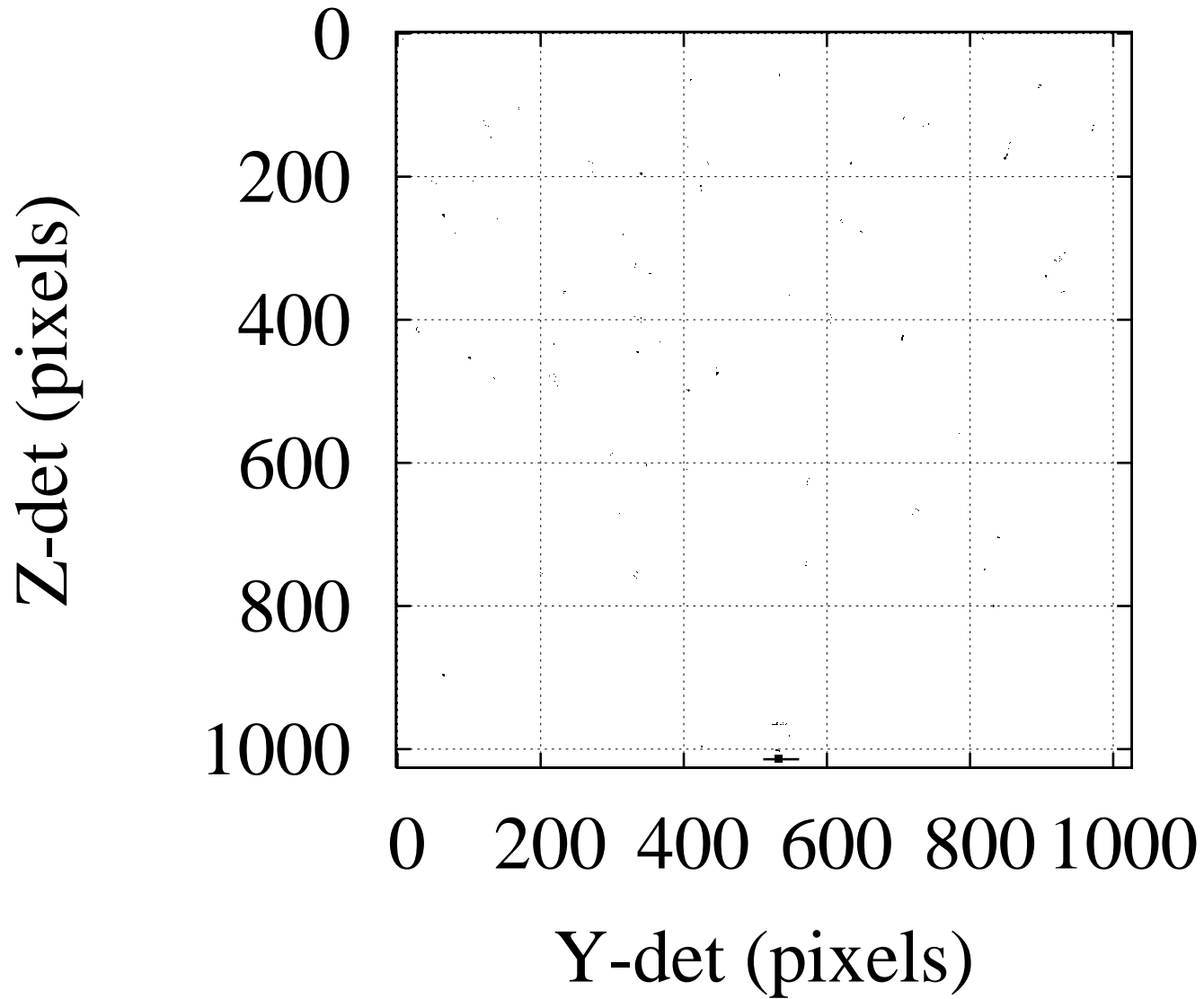
$$\Omega(22) = 1.50 \pm 0.50$$



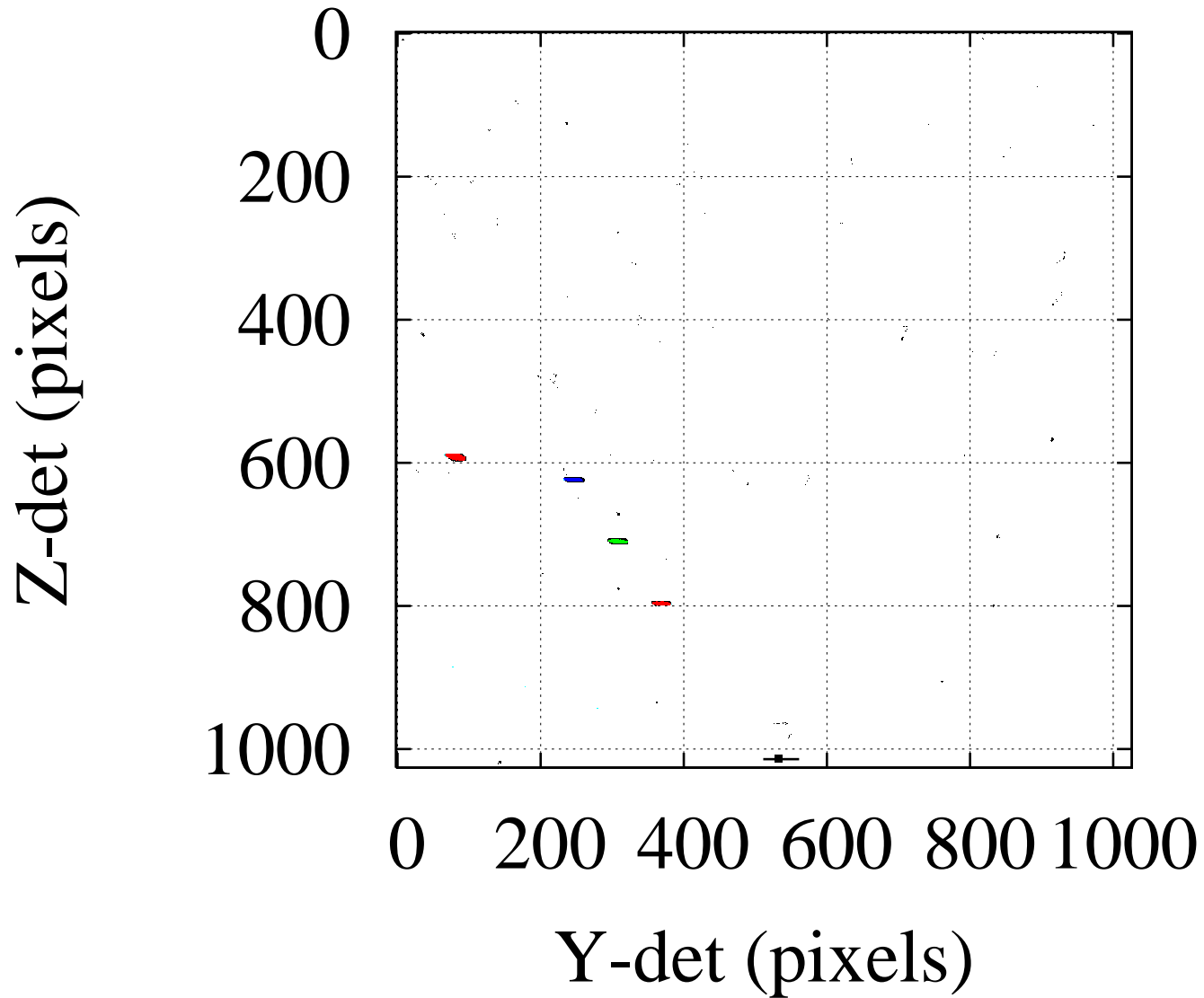
$$\Omega(23) = 2.50 \pm 0.50$$



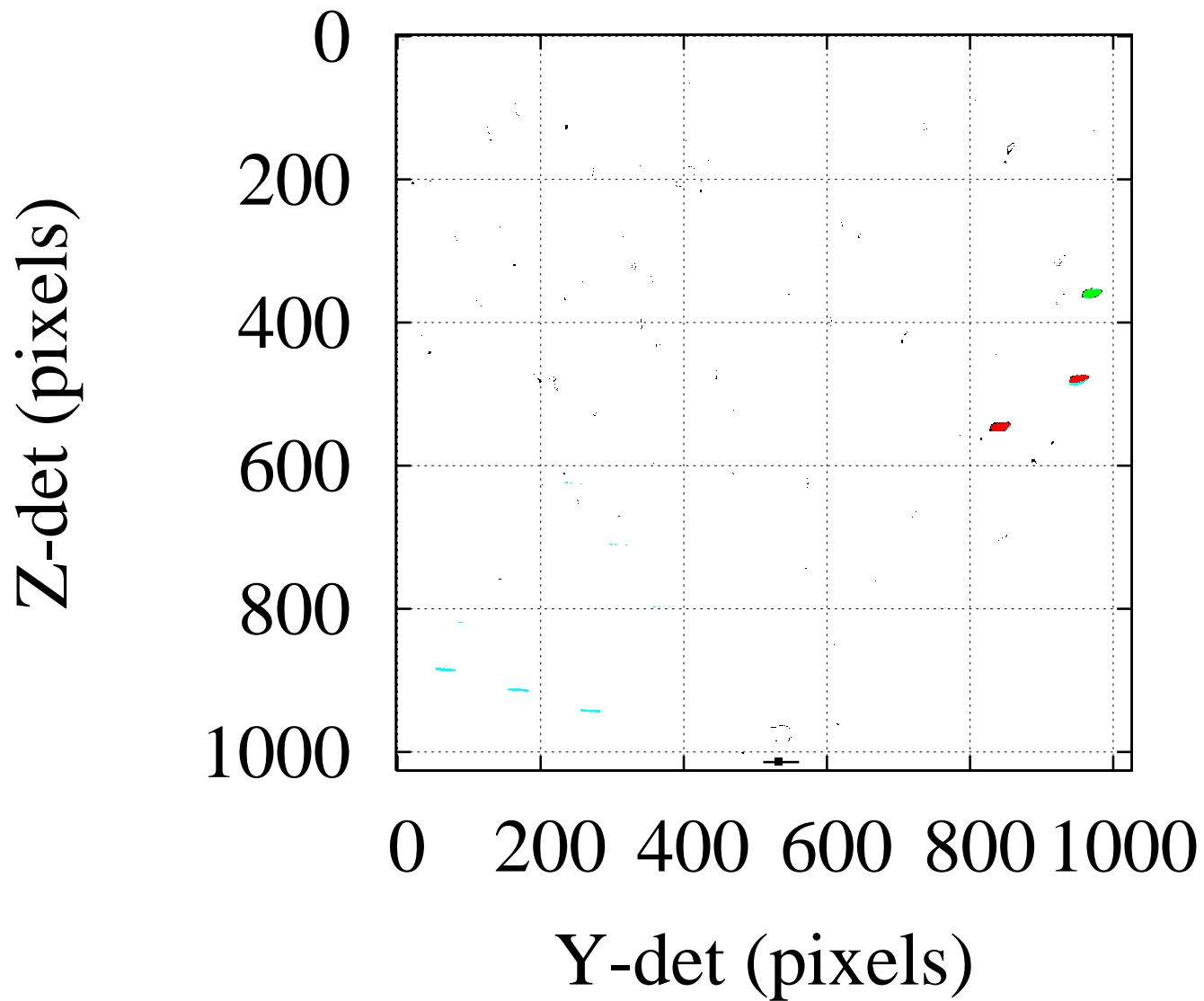
$$\Omega(24) = 3.50 \pm 0.50$$



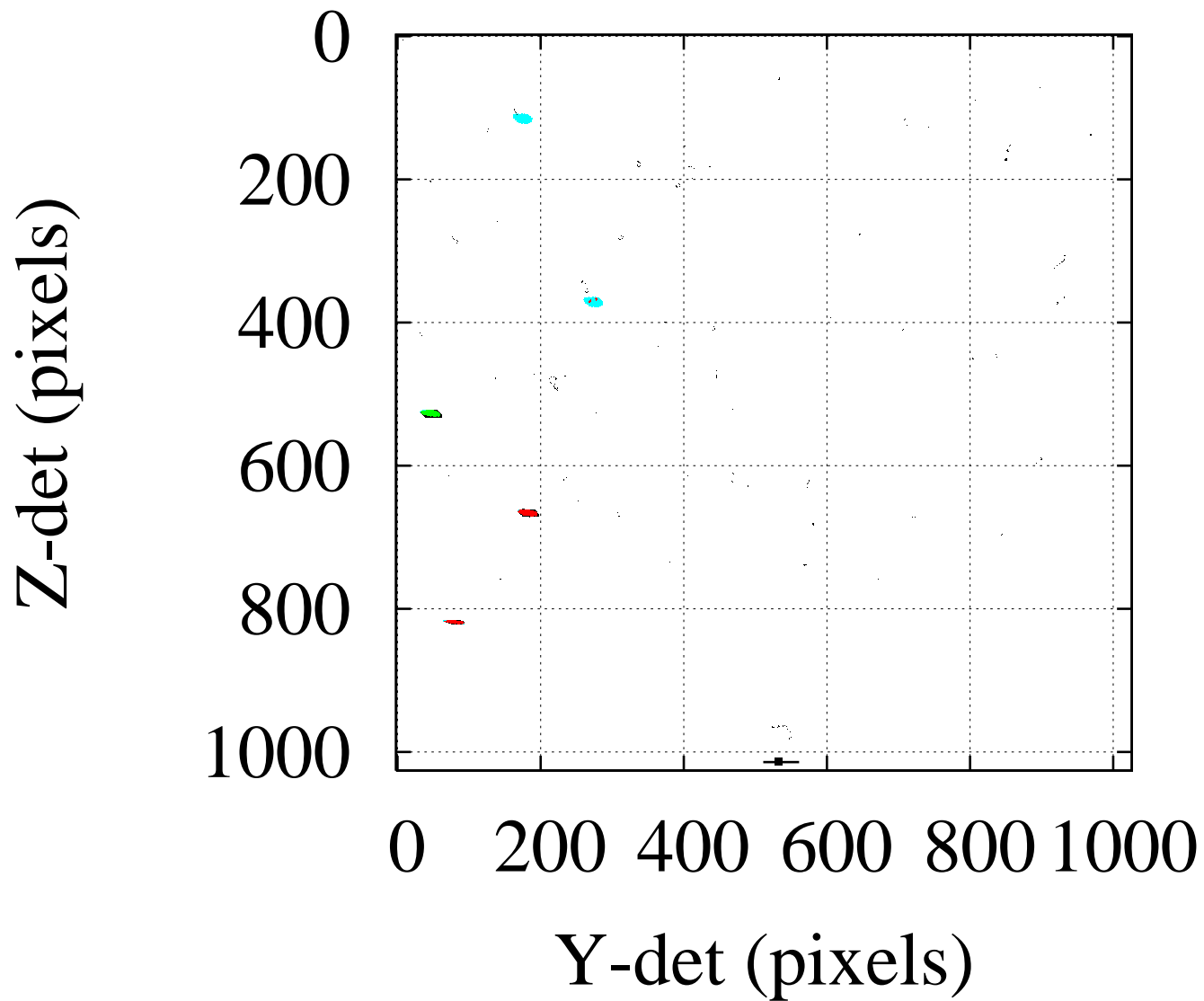
$$\Omega(25) = 4.50 \pm 0.50$$



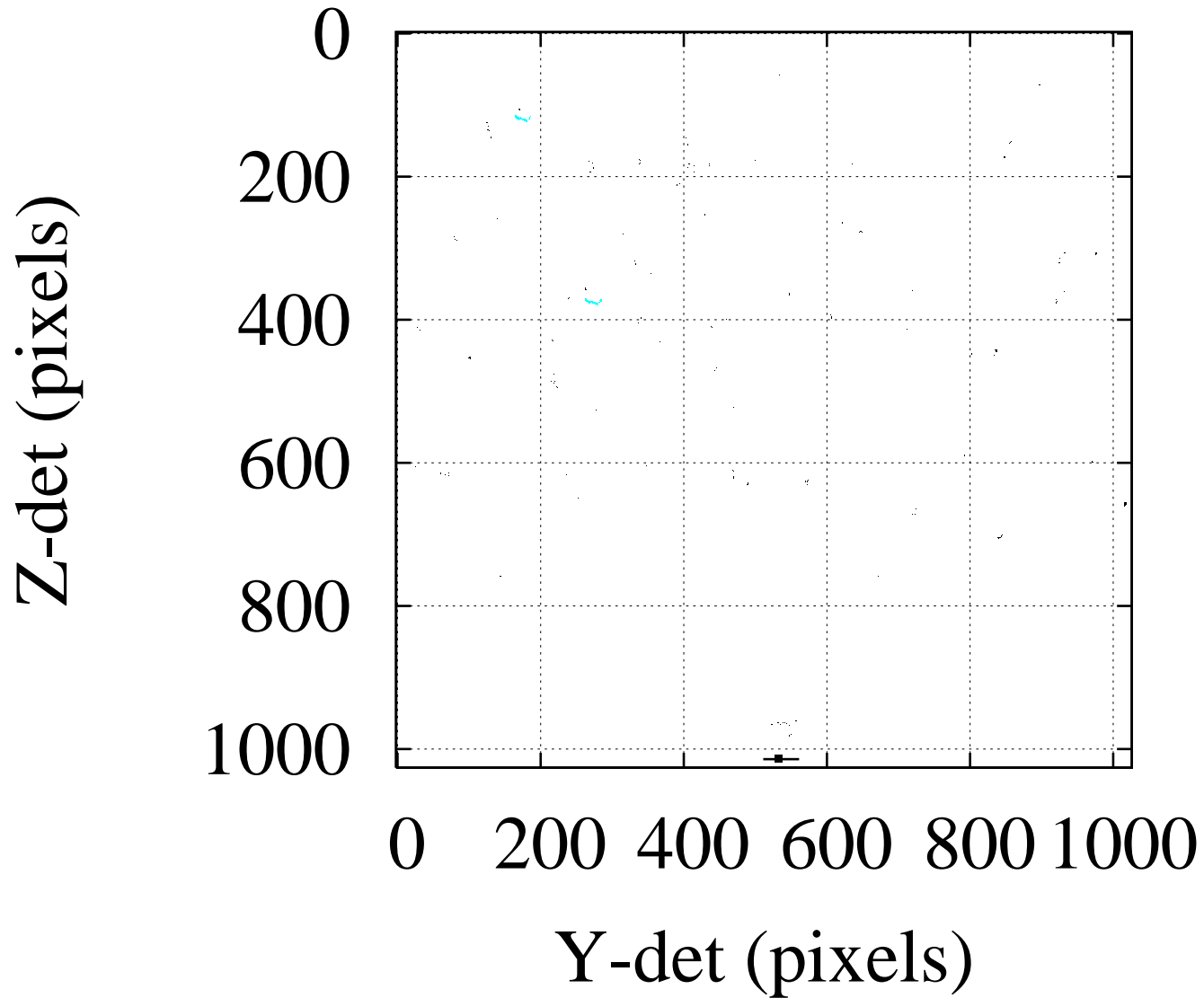
$$\Omega(26) = 5.50 \pm 0.50$$



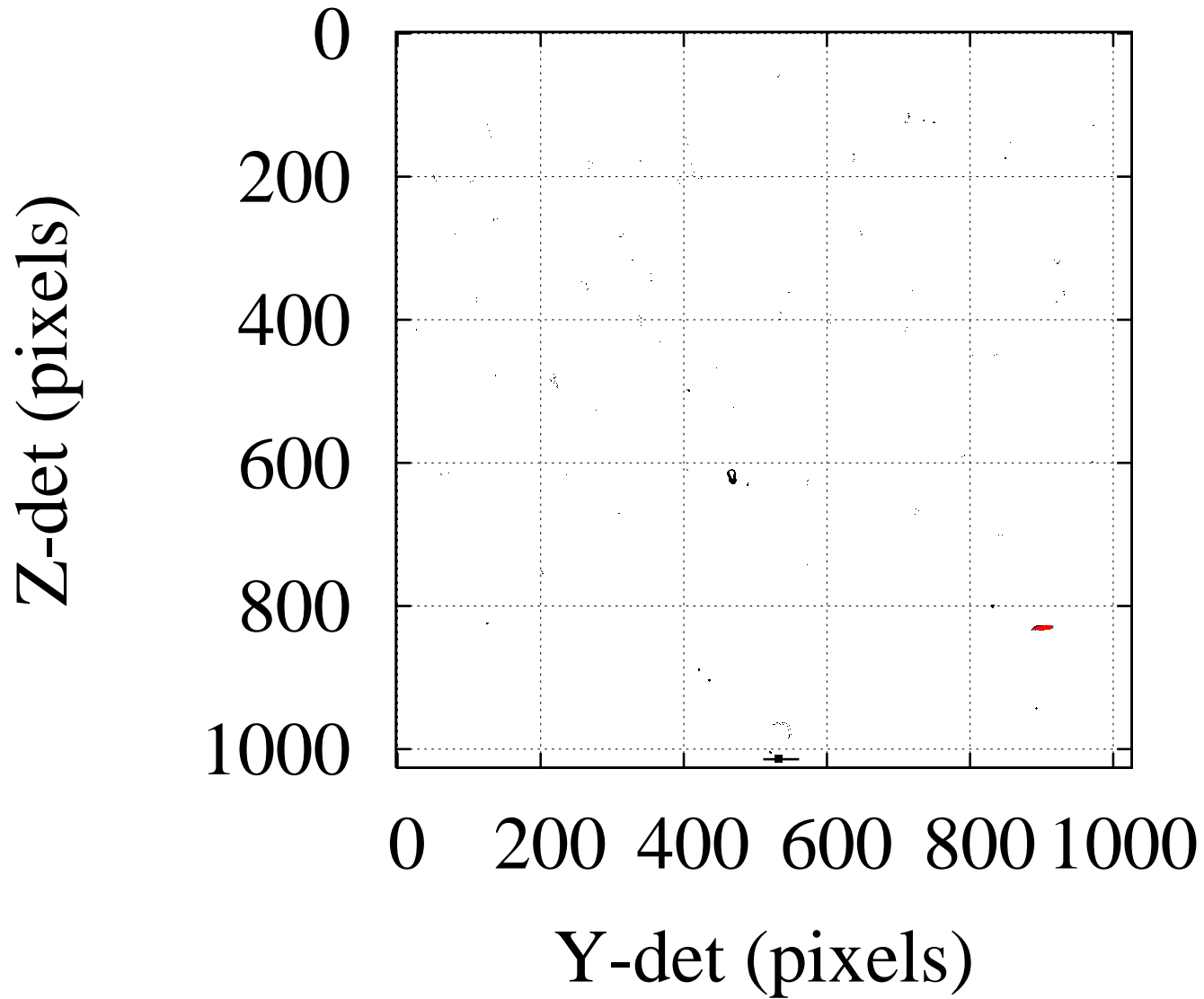
$\Omega(27) = 6.50 \pm 0.50$



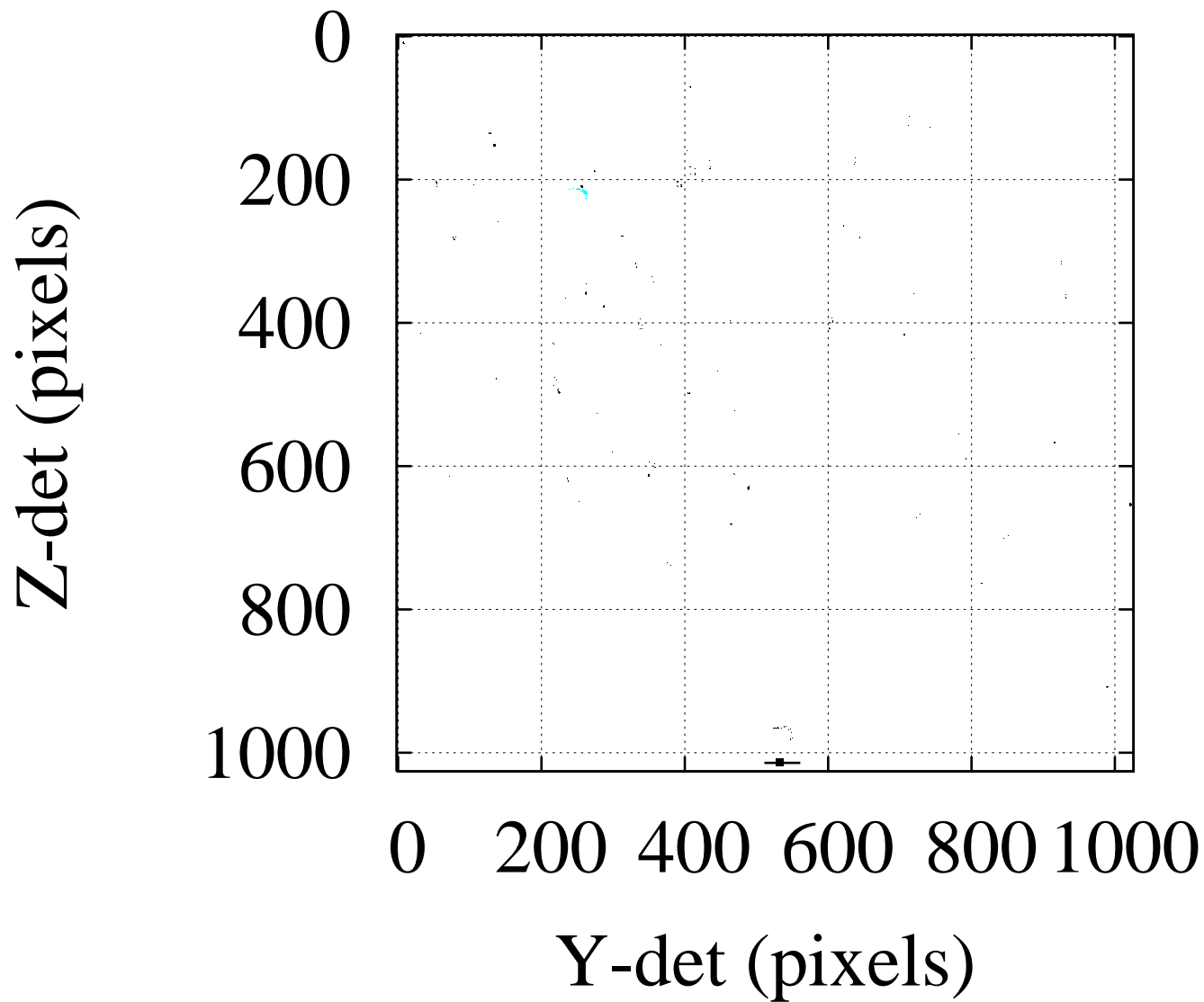
$$\Omega(28) = 7.50 \pm 0.50$$



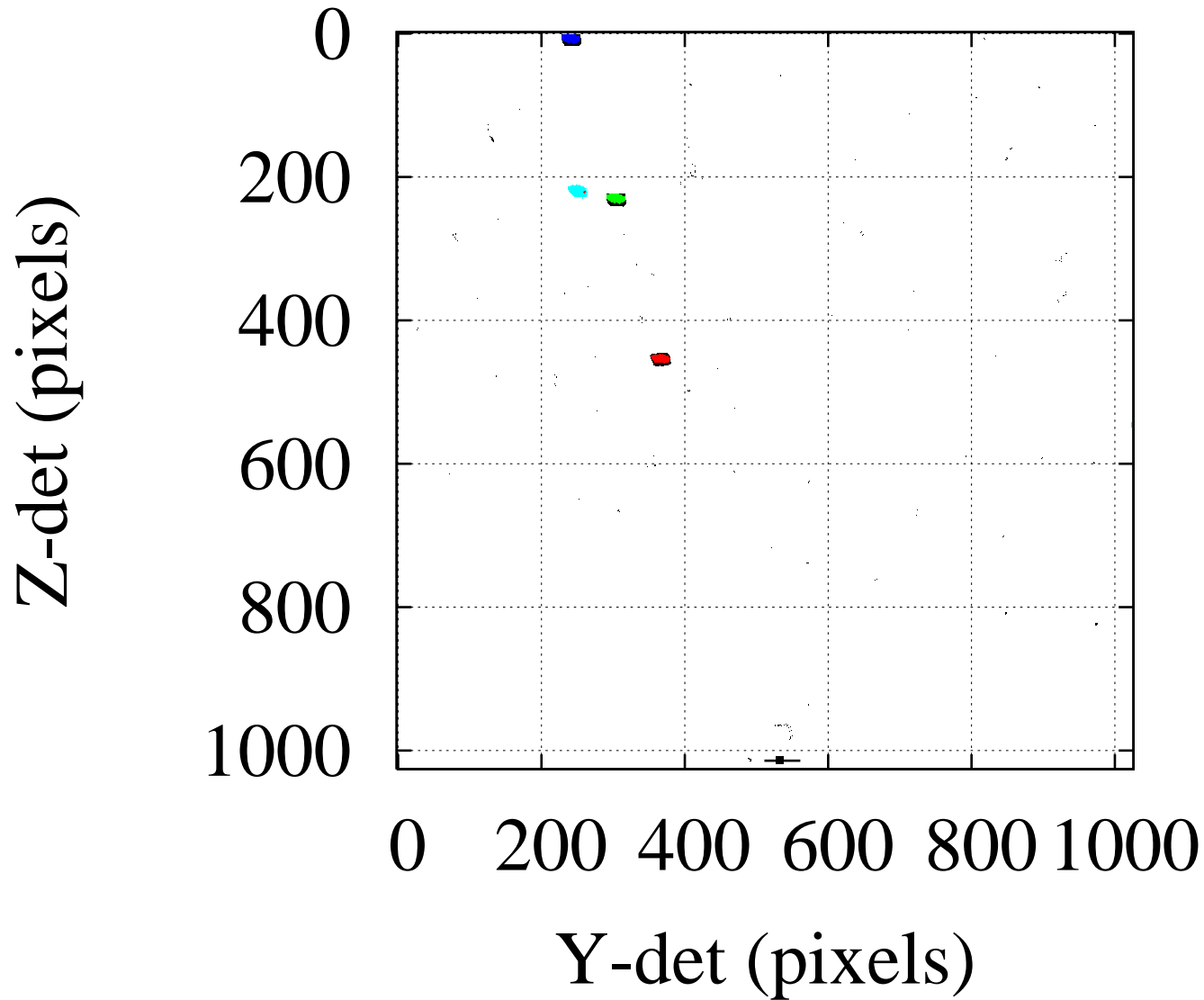
$$\Omega(29) = 8.50 \pm 0.50$$



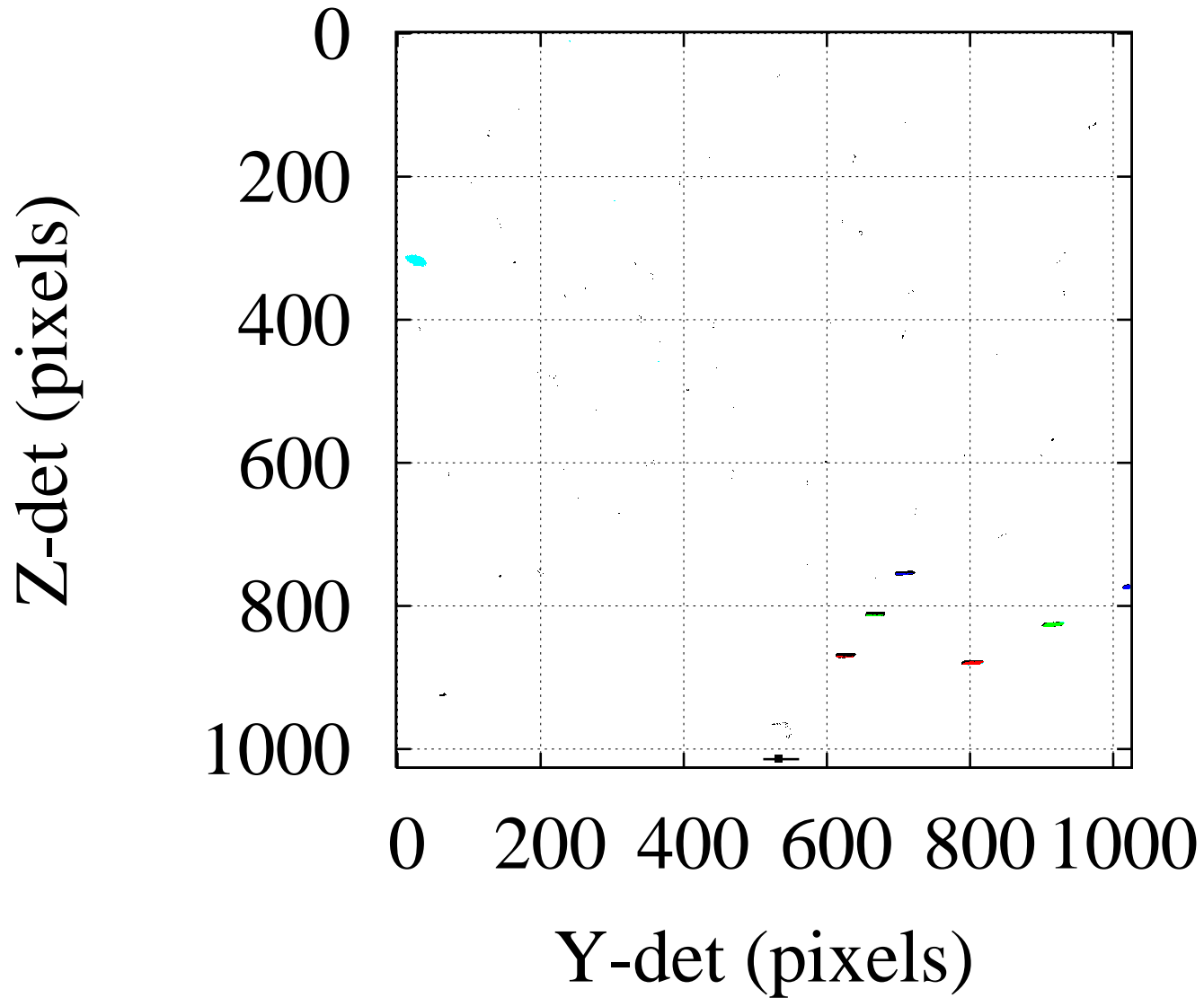
$$\Omega(30) = 9.50 \pm 0.50$$



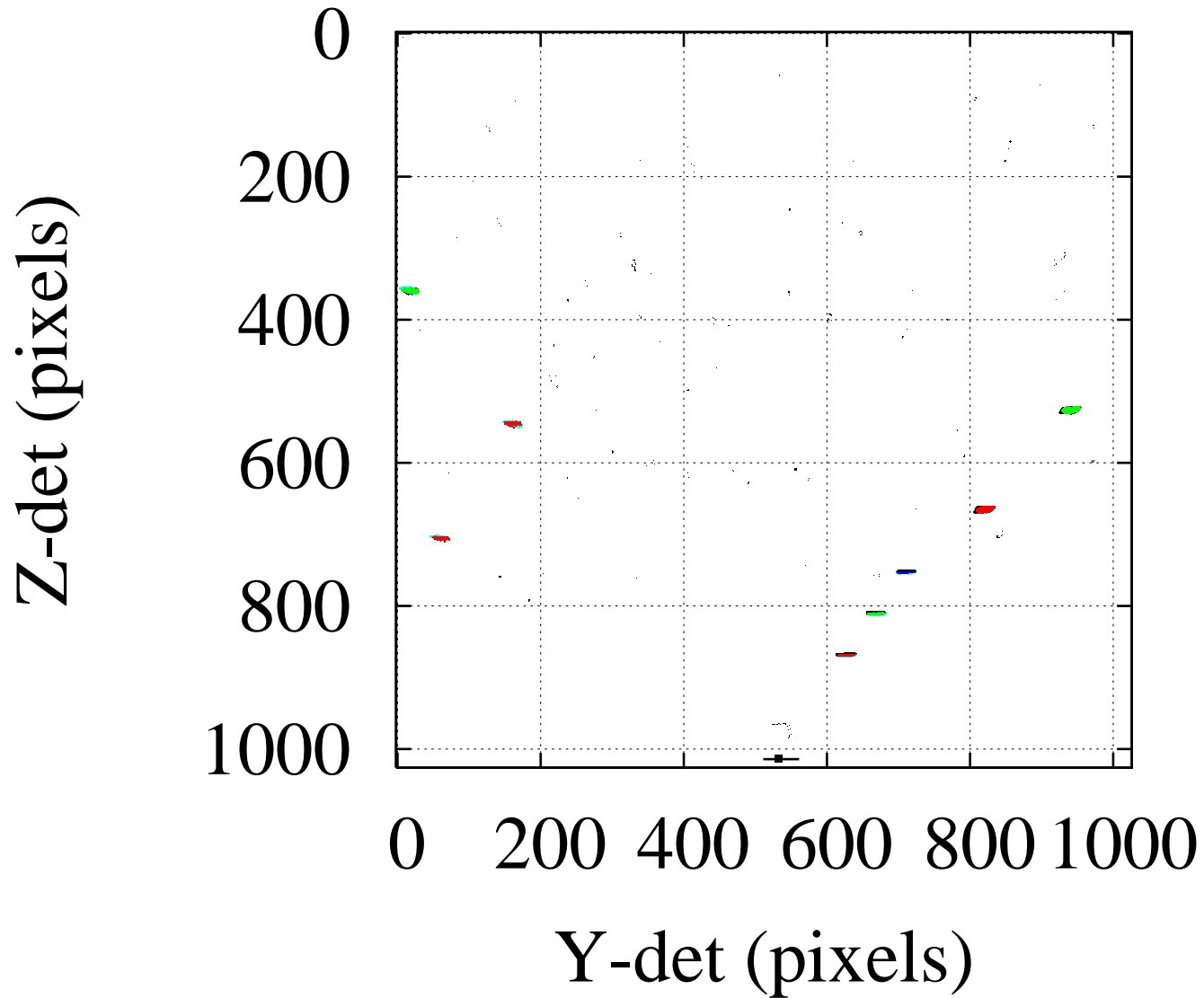
$$\Omega(31) = 10.50 \pm 0.50$$



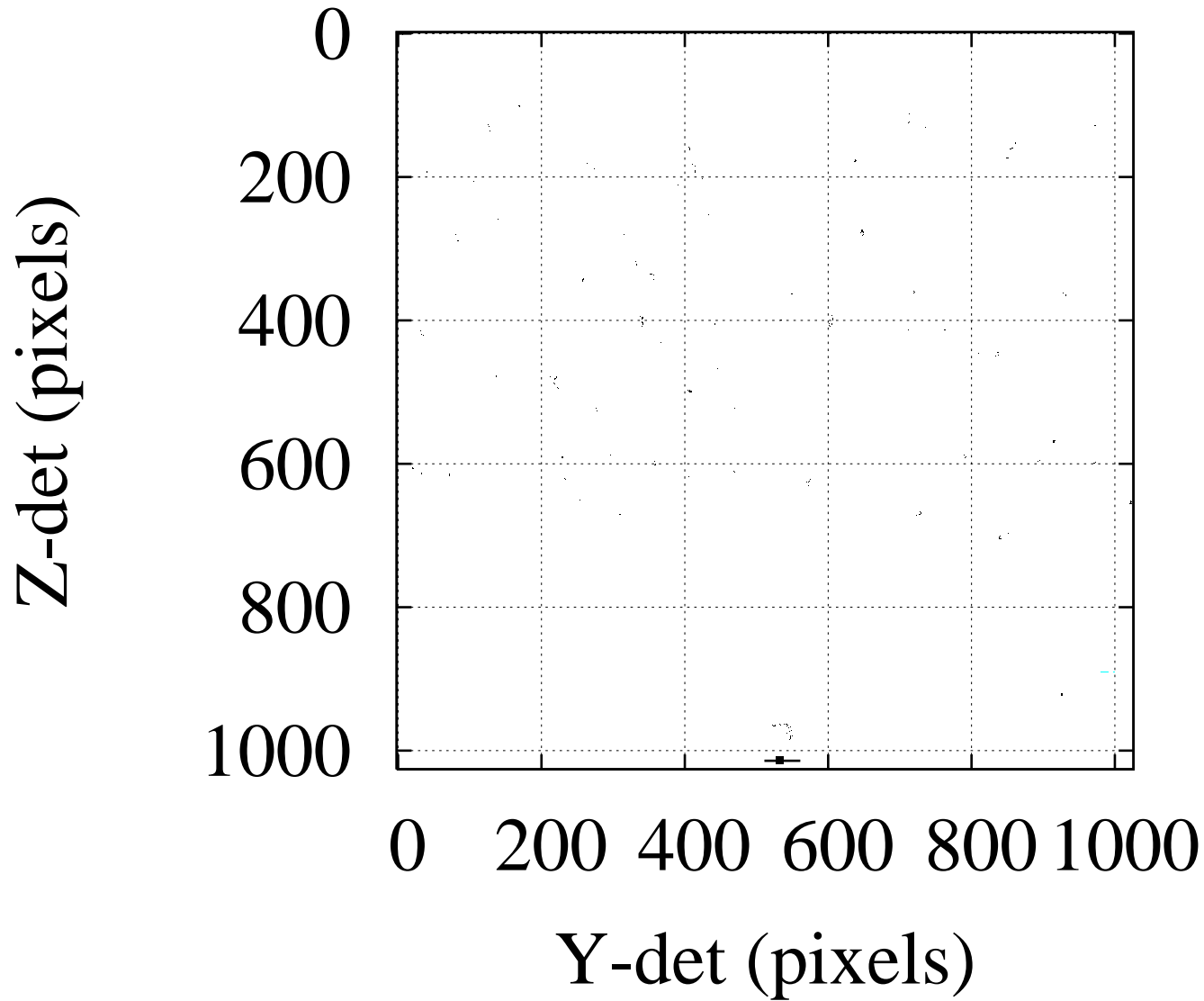
$$\Omega(32) = 11.50 \pm 0.50$$



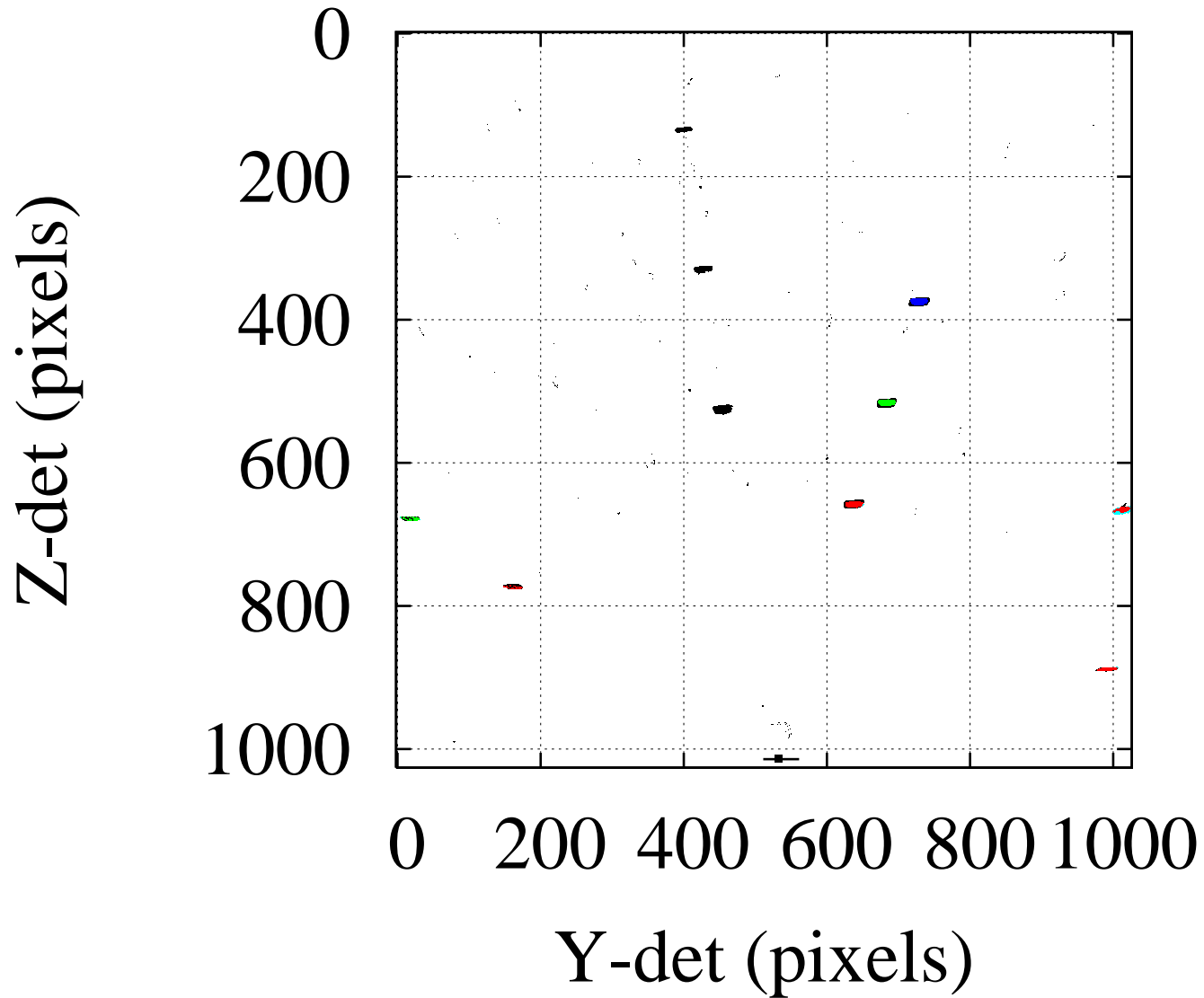
$$\Omega(33) = 12.50 \pm 0.50$$



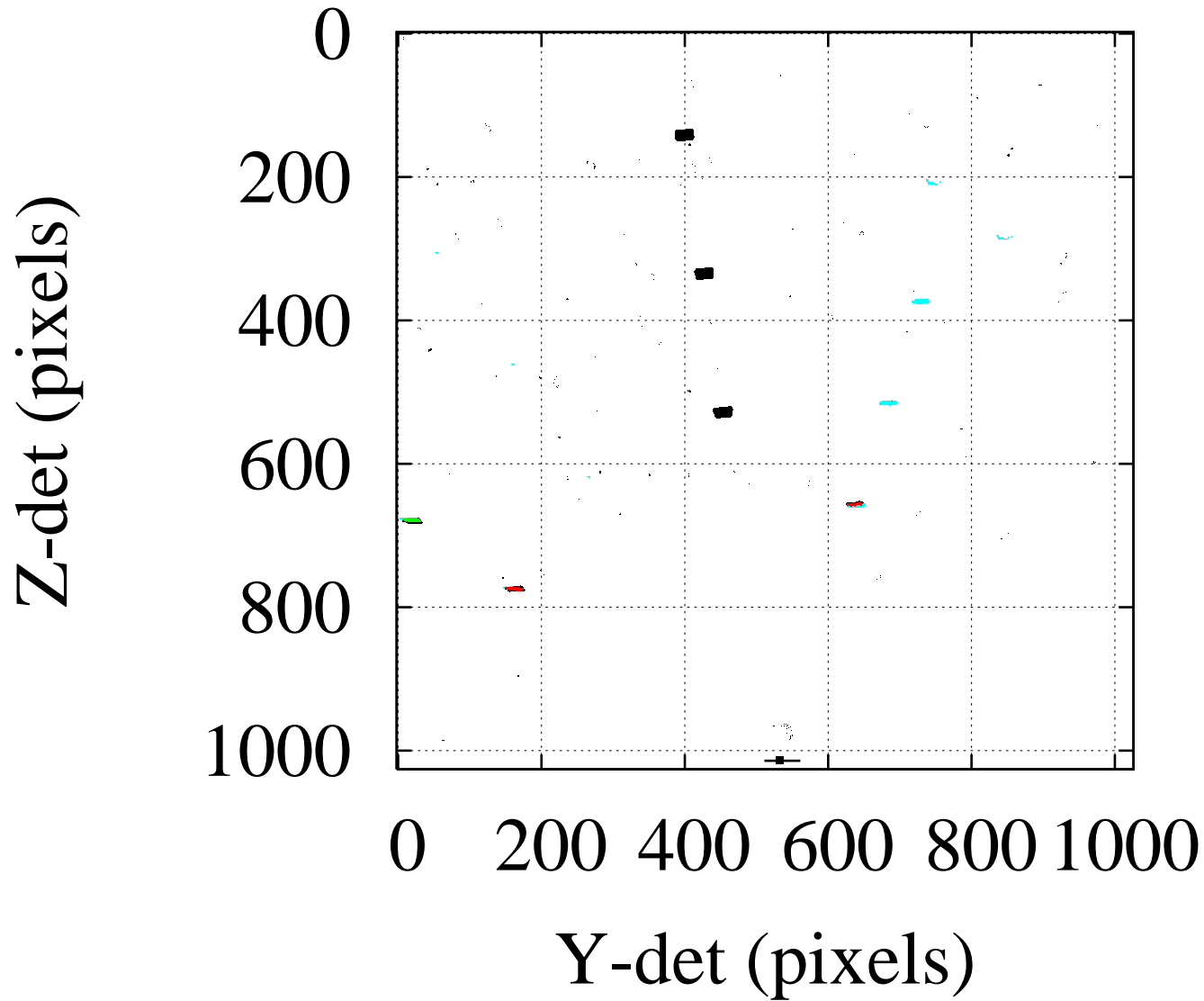
$$\Omega(34) = 13.50 \pm 0.50$$



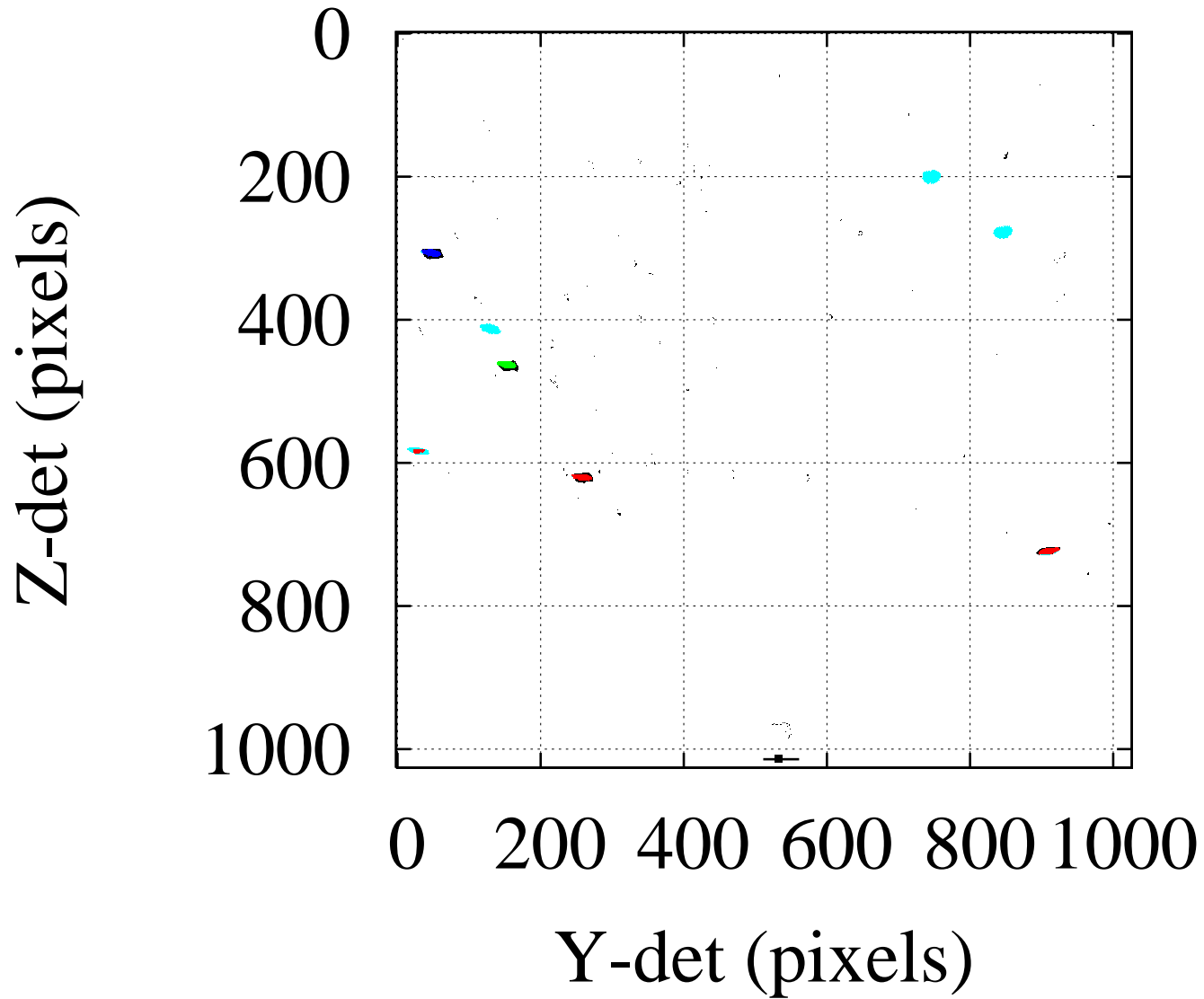
$$\Omega(35) = 14.50 \pm 0.50$$



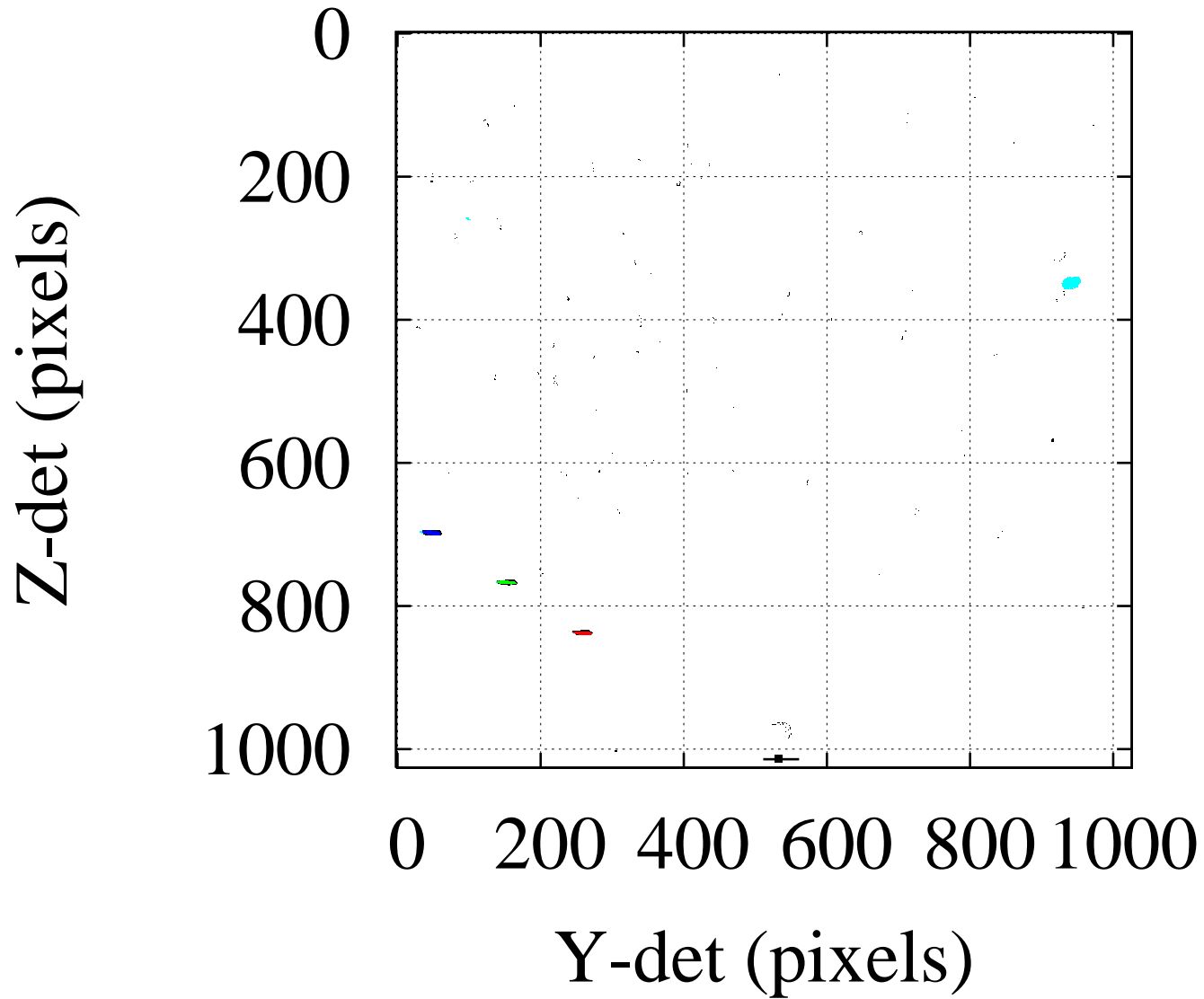
$$\Omega(36) = 15.50 \pm 0.50$$



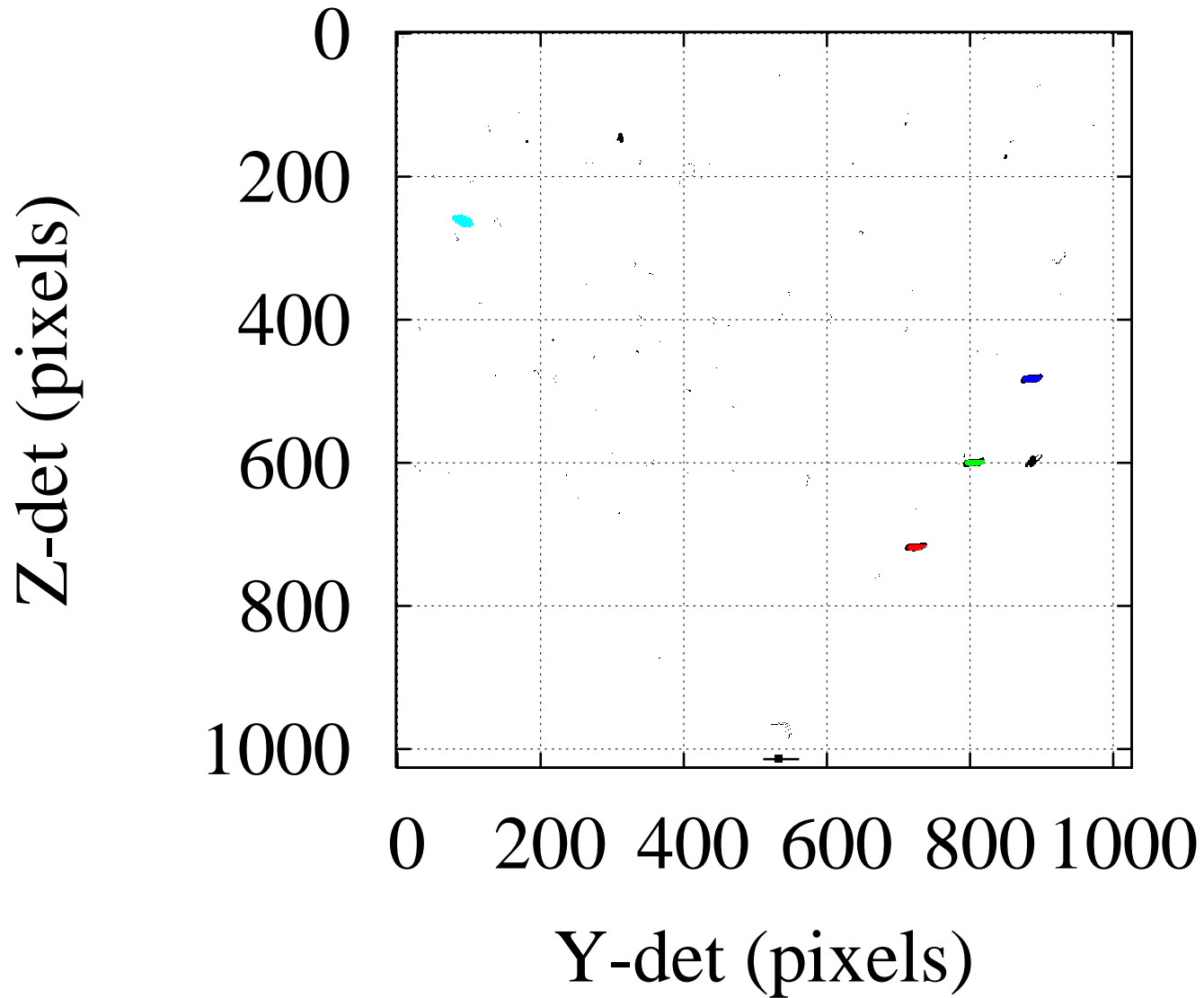
$$\Omega(37) = 16.50 \pm 0.50$$



$$\Omega(38) = 17.50 \pm 0.50$$



$$\Omega(39) = 18.50 \pm 0.50$$



$$\Omega(40) = 19.50 \pm 0.50$$

